```
pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                    (without alignments)
151.577 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
| SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | STDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1986.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1986.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
| SIDSZ/gcgdata/geneseq/geneseqn-embl/NA190.DAT:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT:*/SIDS2/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT:*/SIDS2/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*
                                                                                                                                                                                                                   December 23, 2002, 02:21:48 ; Search time 312 Seconds
GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2185239 seqs, 1125999159 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Listing first 45 summaries
                                                                                                                                                          OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 uggcttgaagatgtactcgau 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0% Maximum Match 100%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N_Geneseq_101002:*
                                                                                                                                                                                                                                                                                                                                                                                          US-09-805-761-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Minimum DB seq length: 0 Maximum DB seq length: 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                      Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence:
                                                                                                                                                                                                                                                            Run on:
```

Š
Ξ
2
ş
Σ
25
•

Description	Vascular endothell VEGF specific anti VEGF specific anti VEGF gene fragment VEGF-A gene fragment VEGF-A gene fragme Human VEGF gene fr
Q	AA122984 AAH23027 AAH23032 AAH23033 AAH23033 AAH23040 AAH23010
æ	22 22 22 22 22 22 17
% Query Match Length DB ID	21 21 21 21 21 21 21 42
% Query Match 1	100.0 100.0 100.0 100.0 100.0 100.0
Score	21 21 21 21 21 21 21 21 21
Result No.	000 0

WPI; 2001-637975/73.

	VEGF expression in VEGF expression in VEGF expression in VEGF expression in VEGF expression in	VEGF expression in VEGF expression in VEGF expression in VEGF expression in VEGF expression in	expression nosuppressan expression hammerhead	VEGF expression in Human CAAX process Mutant vascular en Immunosuppressant		Numen Spilce Crain VEGF expression in Human CAAX process Candida lusitaniae Mouse spliced tran	Immunosuppressant Human multi drug r
48 22 AAK12814 62 22 AAK23029 20 22 AAK23005 20 22 AAK23008 ± AAK123008 21 22 AAK122998	22222	22222	21 22 AAH230L2 20 22 AAH23002 16 21 AAC65574 19 22 AAH23003	22 22 17 21 21	22 AAH2300 19 AAT9539 22 AAH2299 24 ABL4925	60 24 ABN33027 21 22 AAH22994 27 20 AAW84251 39 22 AAH02122 65 24 ABN52558	22
	19 90.5 19 90.5 19 90.5 19 90.5	18.4 87.6 18 85.7 18 85.7 18 85.7 17.8 84.8	17.8 84.8 17 81.0 16 76.2 16 76.2	16 76.2 15.4 73.3 15.2 72.4 15.2 72.4 15.2 72.4	35 15 71.4 36 15 71.4 37 15 71.4 38 14.8 70.5	39 14.6 69.5 40 14.4 68.6 41 14.2 67.6	14 66.7 14 66.7

ALIGNMENTS

RESULT 1 AA164166

```
Vascular endothelial growth factor; VEGF; cytostatic; anti-HIV; anti-inflammatory; immunosuppressive; antipsoriatic; VEGF inhibitor; Raposi's sarcoma; vascular proliferation; cancer; antisense; tumour; proliferative retinal disease; rheumatoid arthritis; lupus erythematosus; psoriasis; pemphigus; proliferative retinopathy; diabetes mellitus; ss.
                                                                    Vascular endothelial growth factor antisense oligonucleotide (Veglin-3).
AA164166 standard; DNA; 21 BP.
                                                                                                                                                                                                                                                                                           97US-037004P.
                                                                                                                                                                                                                                                                  98US-0016541.
                                                        22-JAN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                             Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                     (GILL/) GILL P S. (MASO/) MASOOD R.
                                                                                                                                                                                                                                                                                             31-JAN-1997;
                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                 US6291667-B1.
                                                                                                                                                                                                                                                                   30-JAN-1998;
                                                                                                                                                                                                                                          18-SEP-2001.
                             AA164166;
```

```
The present sequence represents a vascular endothelial growth factor (VEGF) antisense oligonucleotide, designated Veglin-3. The specification describes two new VEGF antisense oligonucleotides. The invention relates to the pharmacological use of VEGF inhibitor antisense oligonucleotides have to the pharmacological use of VEGF inhibitor antisense oligonucleotides have antipsoriatic activities. The antisense oligonucleotides act as VEGF inhibitors. The VEGF antisense oligonucleotides are not only useful for treating Kaposi's sarcoma but other diseases in which vascular collagen vascular diseases in the collagen vascular diseases (e.g. rheumatoid arthritis, lupus collagen vascular diseases (e.g. rheumatoid arthritis, lupus critical in the treatment of pre-cancerous conditions, solid tumours, mallitus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                   New vascular endothelial growth factor antisense oligonucleotides, useful for treating Kaposi's sarcoma, and diseases associated with vascular proliferation, e.g. cancer, proliferative retinal diseases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Vascular endothelial growth factor; VEGF; antisense; anglogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 21; DB 22; Length 21; 90.5%; Pred. No. 0.76; tive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 21 BP; 5 A; 3 C; 6 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VEGF specific antisense oligo Veglin-3.
                                                                                                Claim 1; Column 13; 22pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.
90.5%; File
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH22984 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-JAN-2000; 2000US-0487023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Best_Local Similarity 90.5
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH22984;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAH22984
```

ô q

```
ö
            cells axhibiting autocrine VEGF activity at an IC.5_0 concentration of against VEGF for inhibiting cancer cell proliferation and anglogenesis. Preferably the oligonucleotide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, pancreatic cancer or melanoma. The present sequence represents an antisense oligonucleotide directed against VEGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor cells where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against veger for inhibiting cancer cell proliferation and anglogenesis. Preferably the oligonucleotide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. The present sequence represents a mixed backbone derivative of an antisense oligonucleotide
(VEGF) where the antisense oligonucleotides inhibits proliferation of
                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vascular endothelial growth factor; VEGF; antisense; angiogenesis;
cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                         VEGF specific antisense oligo AS-3 mixed backbone derivative.
                                                                                                                                                                                 100.0%; Score 21; DB 22; Length 21; 90.5%; Pred. No. 0.76; Live 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 5 A; 3 C; 6 G; 5 T; 2 U; 0 other;
                                                                                                                                            Sequence 21 BP; 5 A; 3 C; 6 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 13; Page 57; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                       AAH23027 standard; DNA; 21 BP.
                                                                                                                                                                                                                                            1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                               19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                        17-SEP-2001 (first entry)
                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                               Local Similarity
es 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                          AAH23027;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic.
                                                                                                                                                                                 Query Match
                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                            RESULT 3
 셤
```

Score 21; DB 22; Length 21; Pred. No. 0.76;

100.0%; 100.0%;

Query Match Best Local Similarity

The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor

Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, anglogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer

WPI; 2001-451898/48. Gill PS, Masood R;

Claim 10; Page 16; 105pp; English.

```
19-JAN-2001; 2001WO-US00019.
     17-SEP-2001 (first entry)
                                                                                     Homo saplens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                             26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAH23035;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT
    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
   ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) Where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis. Preferably the oligonucleotide AMIA33032 (a modified version of AMIA2984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. The present sequence represents a mixed backbone derivative of an antisense oligonucleotide
   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                            Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                         Vascular endothelial growth factor; VEGF; antisense; anglogenesis; cell, proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.
   ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                       VEGF specific antisense oligo AS-3 mixed backbone derivative.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 22; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 21; DB 22; Length 2
100.0%; Pred. No. 0.76;
Live 0; Mismatches 0; Indels
   Indels
  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 21 BP; 5 A; 3 C; 6 G; 5 T; 2 U; 0 other;
  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 3; Page 75; 105pp; English.
 ö
                    UGGCTTGAAGATGTACTCGAU 21
                                                                                           BP
                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAH23033 standard; DNA; 21 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                          19-JAN-2001; 2001WO-US00019
                                                                                                                                                                                                                                                                                                              19-JAN-2000; 2000US-0487023
                               1 UGGCTTGAAGATGTACTCGAU
                                                                                          AAH23032 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AS-3 directed against VEGF
                                                                                                                                   (first entry)
21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21; Conservative
                                                                                                                                                                                                                                                                                                                                                                           WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                     Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 21; Conserv
                                                                                                                                                                                                                                                                                                                                   (GILL/) GILL P S.
                                                                                                                                                                                                                                                WO200152904-A2
                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                  17-SEP-2001
                                                                                                                                                                                                                                                                      26-JUL-2001
                                                                                                                                                                                                                   Synthetic
                                                                                                               AAH23032;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH23033;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAH23033/c
                    --
Matches
                                                                       RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 5
                                                                                  AAH23032
                                      g
                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
```

```
The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) Where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides any be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis. Preferably the oligonucleotide AMA13032 (a modified version of AMA12984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, panoreatle cancer or melanoma. The present sequence represents a VEGF gene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                          Vascular endothelial growth factor; VEGF; antisense; anglogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vascular endothelial growth factor; VEGF; antisense; angiogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; VEGF-A; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 21; DB 22; Length 21; 90.5%; Pred. No. 0.76;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 7 A; 6 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Examples; Fig 17A; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAH23035/c
ID AAH23035 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 UGGCTTGAAGATGTACTCGAU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 90.5
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VEGF-A gene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2001-451898/48.
VEGF gene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GILL/) GILL P S.
                                                                                                                                                                                                                                                           WO200152904-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200152904-A2
```

```
Sequence 33 BP; 9 A; 6 C; 11 G; 7 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                               AAH23010;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gill PS,
                                                                                                             oligo.
                                                                                                                                                                                                                                                     RESULT 8
                                                                                                                                                                                                                                                                 AAH23010
                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                         The invention provides a composition comprising one or more antisense oligonuclectides directed against vascular endothelial growth factor (VEGF) where the antisense oligonuclectides inhibits proliferation of cells exhibiting autocrine VEGF activity at an IC_5_0 concentration of between 0.5-2.5 micro Ma. The antisense oligonuclectides may be directed against VEGF for inhibiting cancer cell proliferation and anglogenesis. Preferrably the oligonuclectide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. The present sequence
                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                              Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Vascular endothelial growth factor; VEGF; antisense; anglogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human VEGF gene fragment complementary to AS-3m antisense oligo.
                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                         Length 21;
                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                        Score 21; DB 22;
Pred. No. 0.76;
2; Mismatches 0;
                                                                                                                                                                                                                                                                                     Sequence 21 BP; 7 A; 6 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                               represents a VEGF-A gene fragment.
                                                                                                                                           Examples; Fig 17b; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Examples; Fig 17c; 105pp; English,
                                                                                                                                                                                                                                                                                                        100.0%; Sc
90.5%; Pre
vative 2;
                                                                                                                                                                                                                                                                                                                                                   1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                               21 TGGCTTGAAGATGTACTCGAT 1
          19-JAN-2000; 2000US-0487023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-JAN-2001; 2001WO-US00019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19-JAN-2000; 2000US-0487023
                                                                                                                                                                                                                                                                                                                                                                                                                   AAH23040/c
ID AAH23040 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-451898/48.
                                                                          WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Masood R;
                                                     Masood R;
                                                                                                                                                                                                                                                                                                                   Local Similarity
                               (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200152904-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH23040;
                                                     G111 PS,
                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G111 PS,
                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 7
                                                                                                                                                                                                                                                                                                                                                                         g
 ò
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of cells exhibiting autorine VEGF activity at an IC_5_0 concentration of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis prefarably the oligonucleotide AAH323032 (a modified version of AAH32984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. Sequences AAH22985-23011
The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothalial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and anglogenesis. Preferably the oligonucleotide AM123032 (a modified version of AM122984) is used and may be utilized to treat Kaposol's sarcoma, ovarian cancer, prostrate cancer, pancrealic cancer or melanoma. The present sequence represents a human VEGF gene fragment complementary to AS-3m antisense
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Vascular endothellal growth factor; VEGF; antisense; angiogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          represent antisense oligonucleotides directed against VEGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 21; DB 22; 90.5%; Pred. No. 0.76; ative 2; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 21 BP; 7 A; 6 C; 3 G; 5 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JEGF expression inhibiting antisense oligo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 3; Page 52; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21 TGGCTTGAAGATGTACTCGAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-JAN-2001; 2001WO-US00019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-JAN-2000; 2000US-0487023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAH23010 standard; DNA; 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40200152904-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JUL-2001
```

ð

```
Human VEGF-A reverse primer A4-R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                     WO200162942-A2.
                                                                         Homo sapiens.
                                                                                                                         30-AUG-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAH23029;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ART10121-T10128 represent antisense oligonucleotides, which are complementary to at least 8 consecutive nucleotides of the vascular endothelial growth factor (VEGF) gene (see AAT10120). These antisense squences inhibit the expression of VEGF to below 30% of normal expression. The antisense oligonucleotides may be used in diagnosis and treatment of diseases involving VEGF expression and associated abnormal angiogenesis, such as cancer, rheumatoid arthritis and diabetes.
                                ö
                                                                                                                                                                                                  Vascular endothelial growth factor; VEGF; antisense oligonucleotide; therapy; abnormal anglogenesis; cancer; rheumatoid arthritis; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                               Anti-sense polynucleotide complementary to VEGF sequence - inhibit growth factor expression and are used for diagnosis and treatment of
                                 Gaps
                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 21; DB 17; Length 42; 90.5%; Pred. No. 0.84; .... 2; Mismatches 0; Indels
                                                                                                                                                                                  Antisense sequence #6 to vascular endothelial growth factor.
           100.0%; Score 21; DB 22; Length 33; 90.5%; Pred. No. 0.81; tive 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                           Kondo S, Matsuda Y, Tanaka Y, Uchida K, Uchida T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 42 BP; 12 A; 12 C; 9 G; 9 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           pred. No. 0.84
2; Mismatches
                                                                                                                           AAT10126 standard; cDNA to mRNA; 42 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 4; Page 44; 66pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAS12814 standard; DNA; 48 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            39 TGGCTTGAAGATGTACTCGAT 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-NOV-2001 (first entry)
                                                         1 UGGCTTGAAGATGTACTCGAU 21
                                                                     95WO-JP01121.
                                                                                                                                                                                                                                                                                                                                 94JP-0311130.
94JP-0145146.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity 90.5
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                            cancer and other diseases
                                                                                                                                                                      21-AUG-1996 (first entry)
                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                (TOAG ) TOA GOSEI KK.
                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 1996-068870/07.
                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                           WO9600286-A1.
                                                                                                                                                                                                                                                                                                                                    21-NOV-1994;
                                                                                                                                                                                                                                                                                                                 07-JUN-1995;
                                                                                                                                                                                                                                                                                                                                             27 -JUN-1994;
                                                                                                                                                                                                                                                                                             04-JAN-1996.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAS12814;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                                                                                                                                                                                                        Synthetic.
                                                                                                                                                    AAT1.0126;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAS12814
                                                                                                                  RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
```

```
The present invention relates to polypeptides that bind cellular receptors for vascular endothelial growth factors (VEGFs), the receptors for vascular endothelial growth factors (VEGFs), the polynucleotides encoding them, and their use for identifying agents that compute interactions between VEGFs and their receptors play an important role in vasculogenesis, the development of receptors play an important role in vasculogenesis, the development of the embryonic vasculature from early differentiating endothelial cells and angiogenesis, the process of forming new blood vessels from and angiogenesis, the process of interactions between VEGF and its pre-existing ones. Modulators of interactions between VEGF and its receptors may be used to treat dysfunction of the endothelial cell compatings age-related macular degeneration, rheumatoid proliferative retinopathies, age-related macular degeneration, rheumatoid cereptor binding profiles compared to known naturally occurring VEGFs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Vascular endothelial growth factor; VEGF; antisense; angiogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; VEGF-A; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Polypeptides that bind cellular receptors for vascular endothelial growth factors, polynucleotides encoding them -
Human; vascular endothelial growth factor; VEGF-A; vasculogenesis; angiogenesis; blood vessel; cancer; prolliferative retinopathy; psoriasis; age-related macular degeneration; rheumatoid arthritis; cardiovascular; primer; mutant; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 21; DB 22; Length 48; pred. No. 0.86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 48 BP; 12 A; 9 C; 14 G; 13 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 1; Page 87; 261pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      methods of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH23029 standard; DNA; 62 BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (LUDW-) LUDWIG INST CANCER RES.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-FEB-2000; 2000US-0185205.
18-MAY-2000; 2000US-0205331.
                                                                                                                                                                                                                                                                                                                                                                                          26-FEB-2001; 2001WO-US06113.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VEGF-A gene fragment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alitalo K, Jeltsch MM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity
Matches 19; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-536640/59.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (LICN ) LICENTIA OY.
```

```
The invention provides a composition comprising one or more antisense (VEGF) where the antisense oligonucleotides inhibits prowth factor cells exhibiting autocrine VEGF activity at an IC_5 o concentration of against VEGF or inhibiting cancer cell proliferation of Preferably the oligonucleotides oligonucleotides may be directed Preferably the oligonucleotide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's safriced version of AAH22984) prostrate cancer, pancreatic cancer or melanoma. The present sequence
                                                                                                                                                                                    Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, anglogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Vascular endothelial growth factor; VEGF; antisense; anglogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                          'Match 100.0%; Score 21; DB 22; Length 62; Local Similarity 90.5%; Pred. No. 0.89; Onservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 62 BP; 12 A; 17 C; 18 G; 15 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VEGF expression inhibiting antisense oligo.
                                                                                                                                                                                                                                    Examples; Fig 14; 105pp; English.
                                                                                      19-JAN-2000; 2000US-0487023.
                                                             19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAH23005 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23 TGGCTTGAAGATGTACTCGAT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-2001 (first entry)
                                                                                                                                                                WPI; 2001-451898/48.
                                                                                                                                          Masood R;
                                                                                                              (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-451898/48.
            WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GILL/) GILL P S.
                                     26-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-JUL-2001.
                                                                                                                                      G111 PS,
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAH23005;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 12
à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
```

ö

```
The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides inhibits proliferation of against VEGF for inhibiting encer cell proliferation and anglogenesis. Preferably the oligonucleotide AAH22032 (a modified version of AAH22084) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. Sequences AAH22985-23011 represent antisense oligonucleotides directed against VEGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor cells which the antisense oligonucleotides inhibits proliferation of between 0.5.2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and anglogenesis. Preferably the oligonucleotide AH23032 (a modified version of AH22984)
            Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vascular endothelial growth factor; VEGF; antisense; anglogenesis;
cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic;
antisense therapy; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                            95.2%; Score 20; DB 22; Length 20; 95.0%; Pred. No. 2.3; 1ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                    Sequence 20 BP; 5 A; 3 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VEGF expression inhibiting antisense oligo.
                                                                              Claim 10; Page 52; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 10; Page 52; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAH23008 standard; DNA; 20 BP
                                                                                                                                                                                                                                                                                                                                                                                    2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                       1 GGCTTGAAGAIGTACTCGAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                      19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-JUL-2001.
                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAH23008;
                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 13
ð
```

Vascular endothelial growth factor; VEGF; antisense; angiogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.

WO200152904-A2.

Homo sapiens.

Synthetic

VEGF expression inhibiting antisense oligo.

ö a

17-SEP-2001 (first entry)

AAH22999;

AAH22999 standard; DNA; 21 BP.

RESULT 15

AAH22999

```
ö
is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. Sequences AAH22985-23011 represent antisense oligonucleotides directed against VEGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer. cell proliferation and anglogenesis. Preferably the oligonucleotide AAH22032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer, prostrate cancer, pancreatic cancer or melanoma. Sequences AAH22985-23011
                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, angiogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vascular endothellal growth factor; VEGF; antisense; angiogenesis; cell proliferation; Kaposi's sarcoma; cancer; melanoma; cytostatic; antisense therapy; ss.
                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               represent antisense oligonucleotides directed against VEGF.
                                                                                                                                                                                                95.2%; Score 20; DB 22; Length 20; 95.0%; Pred. No. 2.3;
                                                                                                                                                                                                                                                                0; Indels
                                                                                                                             Sequence 20 BP; 5 A; 3 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 21 BP; 6 A; 3 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   VEGF expression inhibiting antisense oligo.
                                                                                                                                                                                                                                                             1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 3; Page 52; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                               1 TGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                          1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-JAN-2001; 2001WO-US00019
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            19-JAN-2000; 2000US-0487023
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAH22998 standard; DNA; 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-2001 (first entry)
                                                                                                                                                                                   Query Match
Best Local Similarity 95.0°
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2001-451898/48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gill PS, Masood R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200152904-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               26-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAH22998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention provides a composition comprising one or more antisense oligonucleotides directed against vascular endothelial growth factor (VEGF) where the antisense oligonucleotides inhibits proliferation of cells exhibiting autocrine VEGF activity at an IC_5_0 concentration of between 0.5-2.5 micro Ma. The antisense oligonucleotides may be directed against VEGF for inhibiting cancer cell proliferation and angiogenesis. Preferably the oligonucleotide AAH23032 (a modified version of AAH22984) is used and may be utilized to treat Kaposi's sarcoma, ovarian cancer prostrate cancer, pancreatic cancer or melanoma. Sequences AAH22985-2301, represent antisense oligonucleotides directed against VEGF.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel antisense oligonucleotides useful for inhibiting vascular endothelial growth factor expression, anglogenesis and for treating cancer, e.g., Kaposi's sarcoma, ovarian cancer and prostrate cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 95.2%; Score 20; DB 22; Length 21; Best Local Similarity 95.0%; Pred. No. 2.3; Matches 19; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 21 BP; 5 A; 4 C; 6 G; 6 T; 0 other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               completed: December 23, 2002, 05:43:27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 3; Page 52; 105pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 GGCTTGAAGATGTACTCGAT 20
                                                                                                                                                                                                                                                                                      19-JAN-2001; 2001WO-US00019.
                                                                                                                                                                                                                                                                                                                     19-JAN-2000; 2000US-0487023.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-451898/48.
                                                                                                                                                                                                                                                                                                                                                                                         Masood R;
                                                                                                                                                                                                                                                                                                                                                      (GILL/) GILL P S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Search completed: Do
Job time : 313 secs
                                                                                                                                                                                                                                                    26-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                      Gill PS,
ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
```

ö

Gaps

ö

0; Indels

95.2%; Score 20; DB 22; Length 21; 95.0%; Pred. No. 2.3; 1.4e 1; Mismatches 0; Indels

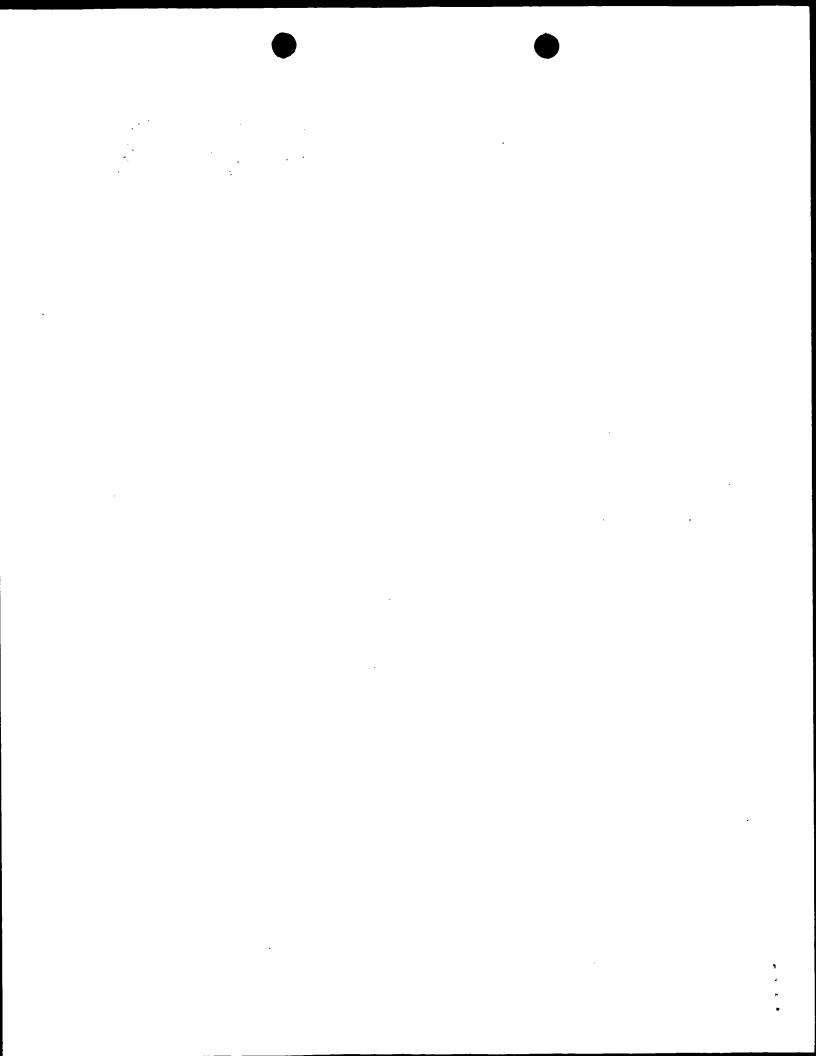
1 UGSCTTGAAGATGTACTCGA 20

ð g

19; Conservative

Best Local Similarity

Query Match Matches



```
TYPE: DNA
                                12.8
12.8
12.8
12.6
12.6
12.6
12.6
12.6
12.6
12.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
g
                                                                                                               υυυυ
                                                                           υO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Appl
Appl
Appl
Appl
Appl
Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APP
APP
APP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 109, App
                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 2, Appli
Sequence 7, Appli
                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           108,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 355,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 48,
Sequence 44,
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 50,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 26.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 42,
Sequence 45,
                                                                              (without alignments)
90.707 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                     Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                      Search time 71 Seconds
                                                                                                                                                                                                                                                                                     //cgn2_6/ptodata/1/ina/5A_COMB.seq:*
/cgn2_6/ptodata/1/ina/5B_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
                 GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-765-340-50

US-08-765-340-51

US-08-765-340-51

US-08-61-794-45

US-08-61-794-45

US-08-765-340-49

US-09-044-796-46

US-09-031-84-109

US-09-031-626-109

US-09-031-626-109

US-09-031-626-109

US-08-641-267

US-08-641-267

US-08-641-267

US-08-68-1009-48

US-09-68-11-21

US-09-031-894-108

US-09-031-894-108

US-09-031-894-108

US-09-031-626-112

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113

US-09-031-626-113
                                                                                                                                                                                              Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-016-541-2
                                                                                                                                                                            441362 seqs, 153338381 residues
                                                                                                                                                                                                                                                                                                                                                                                              SUMMARIES
                                                                         December 23, 2002, 05:30:18;
                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                         OM nucleic - nucleic search, using sw model
                                                                                                                                 1 uggcttgaagatgtactcgau 21
                                                                                                                                                       Scoring table: IDENTITY_NUC Gapext 1.0
                                                                                                                                                                                                                                                                                    Issued_Patents_NA:*
                                                                                                                                                                                                                                                                                                                                                                                                                      Query
Match Length DB
                                                                                                                US-09-805-761-34
                                                                                                                                                                                                                      Minimum DB seq length: 0
Maximum DB seq length: 75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               62.9
62.9
62.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             700.5
700.5
655.7
665.7
664.8
664.8
662.9
622.9
622.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13.22
13.66
13.66
13.22
13.22
13.22
13.22
13.22
                                                                                                                                                                                                                                                                                                                                                                                                                                Score
                                                                                                                        ritle:
perfect score:
                                                                                                                                                                                                                                                                                          Database :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Searched:
                                                                                                                                          Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                         Result
                                                                                   Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0000
```

```
ö
                                                                                                                                                   Appli
Appl
Appl
Appli
                                                                                                                                                                                                                                                                       Appl1
Appl1
Appl1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 12, Appl
                                                                                                                                                                                                                                                                                                                                                                       Appl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Antisense oligonucleotide to a naturally occurring OTHER INFORMATION: sequence US-09-016-541-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                            Sequence 7, Al
Sequence 7, Al
Sequence 8, Al
Sequence 8, Al
Sequence 11,
Sequence 11,
                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                           Sequence 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: GLIL, Parkesh
APPLICANT: GLIL, Parkesh
APPLICANT: GLIL, Parkesh
APPLICANT: Masood, Rizwan
TITLE OF INVENTION: METHOD AND COMPOSITION FOR TREATMENT OF
TITLE OF INVENTION: MAPOSI'S SARCOMA
TITLE REFERENCE: 21327-701
CURRENT APPLICATION NUMBER: US,09/016,541
CURRENT FILING DATE: 1998-01-01
EARLIER APPLICATION NUMBER: US 60/037,004
EARLIER FILING DATE: 1997-01-31
NUMBER OF SEQ ID NOS: 2
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 21
                                                                                                                                                                                                                Sequence
                                                          Sequence
                                                                                            Sequence
                                                                                                                                                                                  Seguence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 100.0%; Score 21; DB 4; Length 21; Best Local Similarity 90.5%; Pred. No. 0.05; Marches 19; Conservative 2; Mismatches 0; Indels Matches 19; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: UCHIDA, 1...
APPLICANT: TANAKA, Y.,
APPLICANT: TANAKA, Y.,
APPLICANT: MATSUA, Y.,
APPLICANT: APPLICANT, Y.,
APPLICANT, Y.,
APPLICANT: APPLICANT,
US-08-456-840-11
US-08-266-407A-11
US-08-892-544-11
US-08-765-340-138
US-09-121-539-4
US-09-121-539-5
US-09-121-539-5
US-08-640-737-10
US-08-640-737-10
US-08-014-723-7
US-08-014-723-8
US-08-014-723-8
US-08-014-723-8
US-08-307-444A-11
US-08-307-444A-11
US-08-307-389-11
US-08-587-389-13
US-08-587-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
US-08-397-389-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 7, Application US/08765340 Patent No. 6150092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 1
US-09-016-541-2
; Sequence 2, Application US/09016541
; Patent No. 6291667
. Patent No. 629167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
GENERAL UNFORMATION:
APPLICANT: UCHIDA, K.,
APPLICANT: UCHIDA, T.,
                           US-08-765-340-7/c
```

```
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 145146/94
FILING DATE: 27-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 311130/94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 95.0%
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-08-765-340-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -08-765-340-51
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
100.0%; Score 21; DB 3; Length 42;
Best Local Similarity 90.5%; Pred. No. 0.056;
Matches 19; Conservative 2; Mismatches 0; Indels
    COUNTRY:

COUNTRY:

COUNTRY:

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version
SOFTWARE: #1.30 (EPD)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,340

FILING DATE: 23-DEC-1996
FRIOR APPLICATION NUMBER: JP 145146/94

FILING DATE: 21-NOV-1994
APPLICATION NUMBER: JP 311130/94
APPLICATION NUMBER: JP 311130/94
APPLICATION NUMBER: JP 31130/94
APPLICATION NUMBER: JS 353
FELING DATE: 21-NOV-1994
APPLICATION NUMBER: JS 353
FELENGLY INFORMATION:
FELERHOME: (212) 758-4800
TELECOMMUNICATION NEWBER: JS 353
TELECOMMUNICATION NEWBER: JS 353
TELECOMMUNICATION NEWBER: JS 353
TELECOMMUNICATION NEWBER: JS 354
TELECOMMUNICATION NEWBER: JS 354
TELECOMMUNICATION NEWBER: JS 354
TELEFAN: (212) 751-6849
SEQUENCE CHARACTERISTICS:
LENGTH: 42 base pairs
TYPE: CDAR tO MRN

"VPE: CDAR tO MRN

"VPE: CDAR tO MRN

"VPE: CDAR tO MRN

"VPE: CDAR tO MRN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 50, Application US/08765340
| Sequence 50, Application US/08765340
| Patent No. 615092
| CREMERAL INFORMATION:
| APPLICANT: UCHIDA, K. |
| APPLICANT: UCHIDA, T. |
| APPLICANT: TANARA, Y. |
| APPLICANT: MATSUDA, T. |
| APPLICANT: MATSUDA, Y. |
| TITLE OF INVENTION: AN ANTISENSE NUCLEIC ACID NUMBER OF SEQUENCES: 185
| CORRESPONDENCE ADDRESS: ADDRESSE: ADDRESSE: MORGAN & FINNEYS. |
| STREET: 345 PADE. |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: TBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,340
FILING DATE: 23-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEE: MORGAN & FINNEGAN, L.L.P.
1: 345 PARK AVENUE
NEW YORK
NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY: USA
ZIP: 10154
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy di
NEW YORK
NEW YORK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
```

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
                                                                                                                                                                                                                                                                                                                                                                                                           95.2%; Score 20; DB 3; Length 20; 95.0%; Pred. No. 0.16; ottive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: UCHLDA, K.,
APPLICANT: UCHLDA, K.,
APPLICANT: TANAKA, Y.,
APPLICANT: AATSUDA, Y.,
APPLICANT: KONDO, S.
TITLE OF INVENTION: COMPOUND
NUMBER OF SEQUENCES: 185
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER RELABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                              TOPOLOGY: linear NULBCULE TYPE: other nucleic acid
DESCRIPTION: /desc = "synthetic DNA"
PRIOR APPLICATION DAYA:
APPLICATION NUMBER: JP 311130/94
FILING DATE: 21-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: SERVINIAN, LESLIE
REGISTRATION NUMBER: 35,353
REFERNCE/DOCKET NUMBER: 1452-4005
TELEPHONE: (212) 758-4800
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CIRRACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                  1452-4005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUDRESSEE: MORGAN & FINNEGAN, L.L.P.
STREET: 345 PARK AVENUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 23-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 145146/94
PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 311130/94
ATTORNEY AGENT: IPORRATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US/08/765,340 FILING DATE: 23-DEC-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 51, Application US/08765340; Patent No. 6150092; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MAME: SERUNIAN, LESTIE
REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 145
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
```

```
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Keyt, Bruce A.
APPLICANT: Keyt, Francis H.
APPLICANT: Reyt, Nayen, Francis H.
APPLICANT: Reyt, Nayen, Francis H.
APPLICANT: Reyt, Nayen, Francis H.
TITLE OF INVENTION: Qrawth Factor, Their Uses, and Processes for their TITLE OF INVENTION: Production
TITLE OF INVENTION: Production
NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
                                                                                                                                                                         0; Gaps
                                                                                                                                                                                                                                                                                                                                     70.5%; Score 14.8; DB 4; Length 24; 83.3%; Pred. No. 69; tive 1; Mismatches 2; Indels
                                                                                                                                           Score 15; DB 3; Length 20;
Pred. No. 53;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FastSEQ for Windows Version 3.0
                                                                                      TOPOLOGY: linear MOLECULE TYPE: other nucleic acid DESCRIPTION: /desc = "synthetic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 42, Application US/08567200A patent No. 6020473 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                               ; Sequence 355, Application US/09643597
; Patent No. 6426072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 UGGCTTGAAGATGTACTC 18
                                                                                                                                                     71.48;
93.38;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15; Conservative
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO: 5
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; OTHER INFORMATION: Primer US-09-643-597-355
                                                                                                                                                        Query Match
Best Local Similarity 93.3'
Matches 14; Conservative
                                            20 base pairs
                                                                                                                                                                                                                                   6 recetteaacatera 20
                                                           nucleic acid
EDNESS: single
                                                                                                                                                                                                           1. UGGCTTGAAGATGTA 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                     STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-08-567-200A-42
                                                                                                                                                                                                                                                                                              US-09-643-597-355/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 355
LENGTH: 24
                                                                                                                            US-08-765-340-51
                                               LENGTH:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                  RESULT 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                  à
```

```
APPLICANT: Reyt, Bruce A.
APPLICANT: Reyt, Francis H.
APPLICANT: Perrara, Napoleone
APPLICANT: Ferrara, Napoleone
APPLICANT: Ferrara, Napoleone
APPLICANT: Cunningham, Brian C.
APPLICANT: Li, Bing variants of Vascular Endothelial Cell
APPLICANT: Li, Bing variants of Vascular Endothelial Cell
TITLE OF INVENTION: Growth Feator, Their Uses, and Processes for their
TITLE OF INVENTION: Production
NUMBER OF ENQUENCES: 45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             70.5%; Score 14.8; DB 3; Length 27; 83.3%; Pred. No. 71; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
STREET: Four Embarcadero Center, Suite 3400
ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
STREET: Four Embarcadero Center, Suite 3400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/691,794
                                                                                                                                   COMPUTER REALBLE FORM:
MEDIUM TYPE: Floppy disk
MEDIUM TYPE: Floppy disk
COMPUTER: ISM PC compatible
COMPUTER: SYSTEM: PC-DOS/MS-DOS
SOFFWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/567,200A
FILING DATE: 05-DEC-1995
CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                          A-62326-1/WHD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/691,794 FILLING DATE: 02-AUG-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; Sequence 45, Application US/08691794; Partent No. 6057428; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/POCKET NUMBER: A-62:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: United States ZIP: 94111-4187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 CTTGAAGATGTAGGCGAT 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 4 CTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           San Francisco
California
                                                                                                 COUNTRY: United States ZIP: 94111-4187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: nucleic acid
STRANDEDNESS: unkno
                                                             San Francisco
California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TOPOLOGY: unknown MOLECULE TYPE: CDNA US-08-567-200A-42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
Matches 15; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 7
US-08-691-794-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE:
```

```
INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS: LENGTH: 20 base pairs TYPE: nucleic acid STRANDENNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                65.78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Artificial sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 GGCTTGAAGATGTACTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   37 GCCTTTAAGATGTACCC 53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                         8 AAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                        ; TYPE: DNA
; ORGANISM: Homo saplens
US-09-044-796A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity
                                                                                                                                                         US-08-765-340-49
                                                                                                                                                                                                                                                                                                                                                 US-09-044-796A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-725-460A-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 6
LENGTH: 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                         ó
                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                        70.5%; Score 14.8; DB 3; Length 27; 83.3%; Pred. No. 71; tive 1; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 49, Application US/08765340
Fatent No. 6150092
GENERAL INFORMATION:
APPLICANT: UCHIDA, K.,
APPLICANT: UCHIDA, T.,
APPLICANT: TANAKA, Y.,
APPLICANT: TANAKA, Y.,
APPLICANT: KONDO, S.
TITLE OF INVENTION: COMPOUND
NUMBER OF SEQUENCES: 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PATENTIN Release #1.0, Version
SOFTWARE: #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,340
FILING DATE: 23-DEC-1996
PRIOR APPLICATION DATA:
                                                                                                                                     A-63758/WHD
                                            APPLICATION NUMBER: US 08/567,200 FILING DATE: 05-DEC-1995 ATTONNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SSEE: MORGAN & FINNEGAN, L.L.P.
13 345 PARK AVENUE
NEW YORK
NEW YORK
APPLICATION NUMBER: US 60/002,827
FILING DATE: 25-AUG-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: JP 311130/94
FILING DATE: 21-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: SERUNIAN, LEGLIE
RESISTATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 1452-4005
TELECOMMONICATION INFORMATION:
TELEPHONE: (212) 758-4800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1452-4005
                                                                                      NAME: Droger, Walter H.
REGISTRATION NUMBER: 24,190
REFERENCE/DOCKET NUMBER: A-637
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELERX: (415) 781-1989
TELERX: 910 277299
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 Dase pairs
TYPE: nucleic acid
TYPE: nucleic acid
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: JP 145146/94
FILING DATE: 27-JUN-1994
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                      ; TOPOLOGY: unknown ; MOLECULE TYPE: DNA (genomic) US-08-691-794-45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           E: Floppy disk
IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                   4 CTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                      Ouery Match
Best Local Similarity 83.39
Matches 15; Conservative
               FILING DATE: 25-AUG-7
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (212) 758-481
(212) 751-6849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-08-765-340-49
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELEFAX:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                    õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
```

```
SEQUENCE CHARCTERISTICS:

LEMENTH: 20 base pairs

Type: nucled caid

T
```

```
STATE: C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                             STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-UY-U31-020-109/C
Sequence 109, Application US/09031626
Sequence 109, Application US/09031626
Sequence 109, Application US/09031626
Sequence 109, Application
Sequence 109, Application
Sequence 109, Susan L.
APPLICANT: Acton, Susan L.
APPLICANT: Acton, Susan L.
TITLE OF INVENTION: DIAGNOSTIC ASSAYS AND KITS FOR BODY MASS AND
TITLE OF INVENTION: CARDIOVASCULAR DISORDERS
FILLE REPRENCE: MAD 1005.04
CURRENT APPLICATION NUMBER: US/09/031,626
CURRENT FILING DATE: 1998-02-27
SEARLIER PLICATION NUMBER: 08/890,979
EARLIER FILING DATE: 1997-07-10
SOFTWARE: PALENTIN VOS: 121
SOFTWARE: PALENTIN VOS: 2.0
                                                                 0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         64.8%; Score 13.6; DB 4; Length 31; 75.0%; Pred. No. 2.9e+02; tive 1; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
64.8%; Score 13.6; DB 3; Length 31;
Best Local Similarity 75.0%; Pred. No. 2.9e+02;
Matches 15; Conservative 1; Mismatches 4; Indels
                                                                                                                                                                                                                                          RESULT HEALTH NO. 6190.00 Application US/09032894
; Sequence 109, Application US/09032894
; Patent No. 6130041
; GRENERAL INFORMATION:
   APPLICANT: Acton, Susan L.
   TITLE OF INVENTION: ST. BI NUCLEIC ACIDS AND USES THEREFOR
   TITLE OF INVENTION: ST. BI 1980.02.7
; CURRENT FILING DATE: 1998-02-7
; CURRENT FILING DATE: 1997-07-10
; MUMBER OF SEQ ID NOS: 121
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 109
; LENGTH: 31
                    Score 13.8; DB 4; Length 73; Pred. No. 2.7e+02; 0; Mismatches 2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              23 GGCATGATGATGTAGTCGCT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23 GGCATGATGATGTAGTCGCT 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 75.0%
Matches 15; Conservative
                                 65.7%;
                                                                                                              2 GGCTTGAAGATGTACTC 18
|||||| |||||||||| |
37 GGCTTTAAGATGTACCC 53
                                    Query Match
Best Local Similarity 88.28
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Human
US-09-031-626-109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-031-626-109/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 13
US-08-679-645-267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-032-894-109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
US-09-725-460A-6
                                                                                                                                                                                                                               RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     õ
                                                                                                                                                                    g
                                                                                                                              ç
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64.8%; Score 13.6; DB 4; Length 31; 66.7%; Pred. No. 2.9e+02; tive 2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: The letter "N" stands for any base. US-08-679-645-267
                                                                                                                                                                 CLEANT: Werle, Otto
TITLE OF INVENTION: COMPOSITION AND METHODS FOR
TITLE OF INVENTION: MODULATION OF GENE EXPRESSION
TITLE OF INVENTION: N PLANTS
NUMBER OF SEQUENCES: 1263
CORRESPONDENCE ADDRESS:
ADDRESSEE: Loon
STREET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM COMPATIBLE
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/679,645
FILING DATE: ULLY 12, 1996
CLASSIFICATION DATA:
APPLICATION NUMBER: 60/001,135
FILING DATE: ULLY 13, 1995
FILING DATE: ULLY 13, 1995
APPLICATION NUMBER: 08/300,726
                                                                    APPLICANT: Zwick, Michael G.
APPLICANT: Edington, Brent E.
APPLICANT: McSwiggen, James A.
APPLICANT: McSwiggen, James A.
APPLICANT: Guo, Lining
APPLICANT: Skokut, Thomas A.
APPLICANT: Young, Scott A.
APPLICANT: Young, Scott A.
APPLICANT: Folkerts, Otto
APPLICANT: Merlo, Donald J..., ...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MD
MEDIUM TYPE: Storage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILING DATE: September 2, 1994
ATTORNEY/AGENT INFORMATION:
NAME: WATDURY, RICHARD:
REGISTRATION NUMBER: 32,32
REGISTRATION NUMBER: 219/247
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; Sequence 22, Application US/09164023
; Patent No. 6140054
Sequence 267, Application US/08679645
Patent No. 6350934
                                                                                                                                                                                                                                                                                                                                                                             ADDRESSEE: Lyon & Lyon STREET: 633 West Fifth Street STREET: Suite 4700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEPHONE: (213) 489-1600
TELERAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 267:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7 UGGCCUGAUGANGAAAUCGAU 27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Wittwer, Carl T
APPLICANT: Bernard, Philip S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity 66.78
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acid
EDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                        Los Angeles
California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RY: U.S.A.
90071-2066
                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-164-023-22/c
```

```
TITLE OF INVENTION: Multiplex Genotyping Using Fluorescent Hybridization TITLE OF INVENTION: Probes FILE REFERENCE: 7475-61466 CURRENT APPLICATION NUMBER: US/09/164,023 NUMBER OF SEQ ID NOS: 22 SOFTWARE: Patentin Ver. 2.0 SEQ ID NO 22 LENGTH: 45
                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;
0
                                                                                                                                                                                                                               64.8%; Score 13.6; DB 3; Length 45; 75.0%; Pred. No. 3.1e+02; tive 1; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   64.8%; Score 13.6; DB 4; Length 68; 75.0%; Pred. No. 3.4e+02; tive 1; Mismatches 4; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM IIFE: ELVEY, COMPUTER: IBM FC COMPUTER: COMPUTER: IBM FC COMPUTER: SOFTWARE: SOFTWARE: PACENTIN Release #1.0, Version #1.25 APPLICATION DATA: 05/08/483,511 FILING DATE: 07-JUN-1995 CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADDRESSEE: Seed and Berry
STREET: 6300 Columbia Center, 701 Fifth Avenue
                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 48, Application US/08483511
Fatent No. 6297048
GENERAL INFORMATION:
APPLICANT: Chang, Stephen M.W.
APPLICANT: Townsend, Kay
APPLICANT: Townsend, Kay
APPLICANT: Townsend, Kay
TITLE OF INVENTION: HEPATITIS THERAPEUTICS
NUMBER OF SEQUENCES: 84
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: MCMSsters, David D.
REGISTRATION NUMBER: 33,963
REFERENCE/DOCKET NUMBER: 930049.407C5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-622-4900
TELEPAX: 206-682-6031
                                                                                                                                                                                                                                                                                           1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                              TELEFAX: 206-684 ...
TELEFAX: 3723836
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 68 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ZIP: YELL
COMPUTER READABLE FORM:
MEDITIM TYPE: Floppy disk
                                                                                                                                                                                                                      Query Match
Best Local Similarity 75.09
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ouery Match 64.8%
Best Local Similarity 75.0%
Matches 15; Conservative
                                                                                                                                                    TYPE: DNA
ORGANISM: Homo sapiens
US-09-164-023-22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Seattle
Washington
                                                                                                                                                                                                                                                                                                                                                                                            US-08-483-511-48/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TOPOLOGY;
US-08-483-511-48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COUNTRY:
                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ô
```

Search completed: December 23, 2002, 07:15:23 Job time : 72 secs

```
GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.
```

- nucleic search, using sw model OM nucleic

December 23, 2002, 05:27:58 ; Search time 2135 Seconds Run on:

(without alignments) 159.300 Million cell updates/sec

US-09-805-761-34 21 Title: Perfect score:

1 uggettgaagatgtactegau 21 Sequence:

IDENTITY_NUC Gapop 10.0 , Gapext 1.0 Scoring table:

16154066 seqs, 8097743376 residues Searched:

218680 ptal number of hits satisfying chosen parameters:

nimum DB seq length: 0 Maximum DB seq length: 75

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Database :

EST:*

em_gss_hum:* em_gss_inv:* em_gss_pln:* em_gss_vrt:* em_gss_fun:* em_gss_mam:* em_esthum: *
em_estin: *
em_estmu: *
em_estcov: * em_estfun:* em_estom:* em_estpl:*
em_estro:*
em_htc:*
gb_estl:*
gb_est2:*
gb_htc:* gb_est3:*
gb_est4:*
gb_est5:* em_estba:* ap_gss:* 114. 1177.... 1177.... 127.... 127.... 127....

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution. em_gss_rod:*

em_gss_mus:* em_gss_other:*

SUMMARIES

		Description		AI957173 ul82h07.x	AU102868 AU102868	AW119912 sd54e02.y	AA931487 om90a02.s	AA755193 vq62b10.r	AV554482 AV554482
		ΙD			AU102868		AA931487	AA755193	AV554482
		DB	:	σ	σ	10	6	σ	10
		Match Length DB		70	20	9		52	71
æ	Query	Match		67.6	64.8	64.8	64.8	62.9	61.9
		Score	: : : : : :	14.2	13.6	13.6	13.6	13.2	13
	Result	NO.		-	0	æ	4	2	9

131 Sak52d 131 Sak52d 101 SALK_0 175 AV9577 1 AU25627 1 AU10318 11 AU10318	AU103187 AU103188 AU103193 HUMGS00077 8 00-132-1	. ~ ~	1M031 2M007 2M007 016h0 805c0 AV835 60156 60156	AU258228 AU25828 BH225923 100612980 AA990325 ua65367.r BE306519 601102723 B1973873 aa194a01. B42211 HS-1055-B1- BH896994 3526_1_6 BH896994 3526_1_6 A1790825 uk28d11.y BH892206 3526_1_20
AZ8049 BM3089 BH8501 AV9577 AU25627 T17567 AU10318	AU103187 AU103188 AU103193 C01080 BH41811	BF20609 AI156511 AL76660 AZ80057 AW65185	A248 AA658 AA236 AV83 BE73 BE73 AA530 TA88	AU25828 BH225933 AA990325 BE306519 BI973873 BI973873 BH896666 BH8969666 BH896994 AI790825
NN4444400	0000mw	811247		55 17 10 10 10 10 10 10 10 10 10 10 10 10 10
92.02.44.00			でててできまます。	400 <i>C</i> CC4440
440000000			88887777	57.1 57.1 57.1 56.2 56.2 56.2 56.2 56.2
122.8 122.6 122.6 122.2 122.2	****	הההההה		12 12 12 12 12 11 11 11 11 11 11 11 11
7 8 10 11 11 13 14	118 118 118 118	55 4 3 5 5 5 6 5 6 5 6 5 6 5 6 6 6 6 6 6 6 6	784833333844 1084833333334	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0000000	00000	υυ	00 00	0 0 0

ALIGNMENTS

EST 20-AUG-1999 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus. 1 (10-70)

Marra, M., Hiller, L., Kucaba, T., Martin, J., Beck, C., Wylle, T., Marra, M., Hiller, L., Kucaba, T., Martin, J., Beck, C., Wylle, T., Underwood, K., Steptoe, M., Thetsing, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, R., Ritter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., The Washt, NCI Mouse EST Project 1999

Unpublished (1999)

Gontact, Marra Mykashu-NCI Mouse EST Project 1999 A1957173 70 bp mRNA linear EST 20-AUG-1999 u182h07.x1 Sugano mouse embryo mewa Mus musculus cDNA clone IMAGE:2158621 3' similar to TR:Q02393 Q02393 HUMAN PAPILLOMAVIRUS A1957173 Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 AI957173.1 GI:5749882 Mus musculus house mouse. SOURCE ORGANISM DEFINITION TITLE JOURNAL COMMENT REFERENCE AUTHORS ACCESSION VERSION KEYWORDS RESULT 1 AI957173 LOCUS

Email: mouseest@watson.wustl.edu This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.

```
16 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AW119912.1 GI:6095245
                                                                                                                                                                              64.8%;
75.0%;
                                                                                                                                                                                                                                                                                                              2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                 20 GGGTTGAAGATGGAATCGCT 1
                                                                                                                                                         Ouery Match
Best Local Similarity 75.0%
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Erpelding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glycine max
                                                                         12 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       soybean.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Glycine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DEFINITION
                                                                            BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 3
AW119912
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMMENT
                                                                                                           ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /note="Vector: pME185-FL3; Site_1: Drail (CACTGTGTG); Site_2: Drail (CACCATGTG); 1st strand cDNA was primed with an oligo(dT) primer [ArTGGGCCTTTTTTTTTTTTTTTTT]; double-stranded cDNA was ligated to a Draili adaptor [TGTTGGCCTACTGG], digested and cloned into distinct Draili sites of the pME185-FL3 vector (5' site CACTGTGTG, 3' site CACCATGTG). XhoI should be used to isolate the cDNA insert. Size selection was performed to exclude fragments <1.5kb. Library constructed by Dr. Sumio Sugano (University of Tokyo Institute of Medical Science). Custom primers for sequencing: 5' end primer CTGTGGCTGCAAAAGCTGGG and 3' end primer CTGTGCTGCTAAAAGCTGG and 3' end primer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AU102868 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone CCL01564, mRNA sequence.
AU102868 AU102868.1 GI:13552389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
Email: ysuzuki(@ims.u-tokyo.ac.jp
Email: ysuzuki(@ims.u-tokyo.ac.jp
Email: ysuzuki(@ims.u-tokyo.ac.jp
Email: ysuzuki, Y. Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano
Suzuki, Y. Yoshitomo-Nakagawa, K., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y. Toshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A. and Sugano
Suzuki, Y., Yoshitomo-Nakagawa, R., Maruyama, R., Suyama, A., Suyama, A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ó
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hata
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., See,J., Hat,H., Otta,T., Isogai,T., Tanaka,T., Mizushima-Sugano,J., See,J., Hat,Y., Nakamura,Y., Suyama,A. and Sugano,S., Okubo,K., Sakaki, Diverse transcriptional initiation revealed by fine, large-scale EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone_lib="Sugano Homo sapiens cDNA library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           67.6%; Score 14.2; DB 9; Length 70; 78.9%; Pred. No. 1.3e+04; live 1; Mismatches 3; Indels
                           Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: custom primer used
High quality sequence stop: 1.
Location/Qualifiers
                                                                                                                                                                                                                                  /organism="Mus musculus"
/strain="c57BL"
/db_xref="taxon:10990"
/clone="IMAGE:2158621"
/clone=lib="Sugano mouse embryo mewa"
/dev_stage="embryo, 14 dpc"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                15 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /clone="COL01564"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 GCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              44 GCGTGTAGATGTACACGAT 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity 78.93
Matches 15; Conservative
MGI:1001793
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human.
                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EYWORDS
RCE
RGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AU102868/C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMMENT
```

à 셤

```
S. Shoemaker, R. Kelm, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Knoaba, T., Martin, J., Back, C., Wylie, T., Underwood, K., Steptoe, M., Theising, B., Marien, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk, K., Rohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Materston, R. and Wilson, R.

Tu unpublished (1999)

Contact: Shoemaker R/Public Soybean EST Project
Public Soybean EST Project
Washington University School of Medicine
4444 Forest Park Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Glycine max"
/db_xref="taxon:3847"
/clone="GENOME SYSTEWS CLONE ID: Gm-c1016-3603"
/clone="GENOME SYSTEWS CLONE ID: Gm-c1016"
/tissue_type="immature flowers of field grown plants"
/clone=lib="Gm-c1016"
/tissue_type="immature flowers of field grown plants"
/lab_host="xilo-Gold"
/note="vector: pBluescript II XR; Site_1: ECORI; Site_2:
Xho1; This cDNA library was constructed from mRNA isolated
from immature flowers of field grown plants. The cDNA
library was prepared using the Stratagene pBluescript II
XR library construction kit. Complementary DNA was
synthesized from mRNA using a primer consisting of a poly
(dT) sequence with a XhoI restriction site. ECORI adapters
were ligated to the blunt-ended cDNA fragments followed by
XhoI digestion. The cDNA fragments were directionally
cloned into the ECORI-XhoI restriction site of the
pBluescript vector. The ligated cDNA fragments were
transformed into XLO-Gold host cells. This library was
constructed by Dr. Randy Shoemaker and Dr. John
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Email: est@watson.wustl.edu
This clone is available through: ResGen, Invitrogen Corp. 2130
South Memorial Parkway Huntsville, AL 35801 For further information
call: (800)-533-4363 or contact via email: ccu@resgen.com
Insert Length: 267 Std Error: 0.00
Seq primer: -40RP from Glibco.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             60 bp mRNA linear EST 30-NOV-2001 sd54e02.y1 Gm-c1016 Glycine max cDNA clone GENOME SYSTEMS CLONE ID: AW119912
                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
/note="Differential display comparison of untreated and dimethylfumarate treated U937 cells" 17\ c 8 g 13\ t
                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                    4; Indels
                                                                                                                                                                                                      Score 13.6; DB 9;
Pred. No. 2.3e+04;
1; Mismatches 4;
```

```
Tunor Gene Index (1997)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.

Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.

CDNA Library Arrayed by: Grag Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found information can be found in through the I.M.A.G.E. Conscrtium/Link at:
                                                                                                                                                                                                                                           64 bp mRNA linear EST 23-JUN-1998 om90a02.sl NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1554410 3' similar to SW:N4AM_BOVIN Q05752 NADH-UBIQUINONE OXIDOREDUCTASE AA931487
                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="Organ: Kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; lst strand cDNA was primed with a Not I - oligo(dT) primer, double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 6). NOI-GAP http://www.ncbi.nlm.nih.gov/ncicgap. NOI-GAP http://www.ncbi.nlm.nih.gov/ncicgap. National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                     ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
       Length 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              64.8%; Score 13.6; DB 9; Length 64; 75.0%; Pred. No. 2.5e+04; 1.0 mismatches 4; Indels
                                                     Indels
  Score 13.6; DB 10;
Pred. No. 2.4e+04;
1; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Trace considered overall poor quality Insert Length: 760 Std Error: 0.00 Seq primer: -40m13 fwd. Er from Amersham High quality sequence stop: 1. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            www-bio.llnī.gov/bbrp/image/image.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /clone="IMAGE:1554410"
/clone_11b="NCI_CGAP_K1d3"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22
9
                                                                                                                                                                                                                                                                                                                                                                                             AA931487.1 GI:3085873
                                                                                                                          2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20 TCGCTTGGAGATCTACTGGA 39
Ouery Match 64.8%;
Best Local Similarity 75.0%;
Matches 15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ပ
6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                   human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                       RESULT 4
AA931487
                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMMENT
                                                                                                                                                                                                                                                                       LOCUS
                                                                                                                                               g
```

RESULT 5

g

```
AA75193
Solution 11 Barstead mouse irradiated colon MPLRB7 Mus.musculus CDNA clone IMAGE:1106875 5' aimliar to SW:SUAR_RAT P17988 ARYL
SULFOTRANSFERASE ;, mRNA sequence.
                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammala; Eutheria; Rodentia; Sclurognathi; Muridae; Murinae; Mus. 1 (Dases 1 to 52)
Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T., Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Worris,M., Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B., Theising,B., Wylle,T., Lennon,G., Soares,B., Wilson,R. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EST 06-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AV554482 Arabidopsis thaliana roots Columbia Arabidopsis thaliana cons Columbia Arabidopsis thaliana AV55482 Arabidopsis thaliana AV55482 AV55482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: -20ml3 rev2 ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 52
/organism="Mus musculus"
/strain="FWN"
/db_xref="taxon:10090"
/clone="IMAGE:1106875"
/clone="IMAGE:1106875"
/dev_stage="W weeks"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                              Unpublished (1996)
Contact: Marra MyMouse EST Project
WashD'HHMI Mouse EST Project
WashD'HHMI Mouse EST Project
WashIngton University School of MedicineP
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Fal: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62.9%; Score 13.2; DB 9; 77.8%; Pred. No. 3.5e+04; iive 1; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                        Waterston, R.
The WashU-HHMI Mouse EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: mouseest@watson.wustl.edu
                                                                                                   AA755193.1 GI:2802391
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AV554482.1 GI:8725895
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 UGGCTTGAAGATGTACTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :||| ||| |||| |||| |||| 11|| ||| 17 TGGCCTGATGATGTGCTC 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 77.8 Matches 14; Conservative
                                                                                                                                                                     Mus musculus
                                                                                                                                                   house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        thale cress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MGI:605043
                                                                                 AA755193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                     ORGANISM
                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
                                                                                 ACCESSION
                                                                                                                                                                                                                                   REFERENCE
                                                                                                       VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 6
AV554482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
                                                                                                                                             SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
```

/organism="Mus musculus"

```
RESULT 8
BM308931/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                     Asamizu, E., Nakamura, Y., Sato, S. and Tabata, S. A large scale analysis of CDNA in Arabidopsis thaliana: Generation of 12,028 non-redundant expressed sequence tags from normalized and DNA Res. 7, 175-180 (2000)
                                                                                                                                                                                                                                                                                                                                                                        Contact: Erika Asamizu
The First Laboratory for Plant Gene Research
Kazusa DNA Research Institute Sinta Sint
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GSS 20-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 25)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A. and Wright, D., Welss, R.
Arabidopsis thaliana
pukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25 bp DNA linear GSS 20-FEB-200 2M0066E10F Mouse 10kb plasmid UUGCIM library Mus musculus genomic clone UUGC2M0066E10 F, DNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue_type="roots"
/note="Vector: pBluescriptII SK-; Site_1: EcoRI; Site_2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mouse whole genome scaffolding with paired end reads from 10kb
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib="Arabidopsis thaliana roots Columbia"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 13; DB 10; Length 71;
Pred. No. 4.8e+04;
2; Mismatches 5; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Arabidopsis thaliana"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0066 row: E column: 10
Seq primer: CGTTGTAAAACGACGCCAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  27 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              High quality sequence stop: 25.
Location/Qualifiers
1. .25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /strain="Columbia"
/db_xref="taxon:3702"
/clone="RZ92d12R"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AZ804962.1 GI:12965773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :||| ||||| |||| || || || || || || 49 TGGCGTGAAGTCGTTCTTGAT 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cn 61.9%;
11 Similarity 66.7%;
14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Class: plasmid ends
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tel: 801 585 5606
Fax: 801 585 7177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      plasmid inserts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Thoir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          house mouse.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          USA
                                                                                                                                                                                                                                                                                                                                                  20363093
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          84112,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
   ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DRGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
                                                                                                                                                                    AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 7
AZ804962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                  MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                               JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                              TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMMENT
                                                                                                                                                                                                                                                                                                                                                                                   COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ŏ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
```

```
/note_roct: PWN4.2nr; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repealed with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high moolar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoreals. Vector DNA was prepared from a derivative of pWN42 (gil4732114)gb|AF129072.1), a copy.number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chamber chemically-competent E. coli XLL0-Gold (Stratagene) cells and selected for ampicillin resistance."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: estewatson.wustl.edu
This clone is available through: ResGen, Invitrogen Corp. 2130
South Memorial Parkway Huntsville, AL 35801 For further information
call: (800)-533-4363 or contact: ccu@resgen.com web site:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 linear . EST 02-JAN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Shoemaker,R., Keim,P., Vodkin,L., Erpelding,J., Coryell,V., Khanna,A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J., Beck,C., Wylie,T., Underwood,K., Steptco,M., Thelsing,B., Allen,M., Bowers,Y., Person,B., Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M., McCann,R., Waterston,R. and Wilson,R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sak52d10.yl Gm-c1036 Glycine max cDNA linear EST 02-JA Gm-c1036-6692 5', mRNA sequence.
BM308931 GI:18040646
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Shoemaker R/Public Soybean EST Project
Public Soybean EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Far: 314 286 1810
Fax: 314 286 1810
                                                                                                          /sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
/db_xref="taxon:10090"
/clone="UUGC2M00066E10"
/clone_lib="Mouse 10kb plasmid UUGC1M library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 12.8; DB 17; Length 25; Pred. No. 4.3e+04; 0; Mismatches 2; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       www.resgen.com
Seq primer: -40RP from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61.0%;
87.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     3 GCTTGAAATGAACTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 GCTTGAAGATGTACTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
Matches 14; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Glycine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 soybean.
```

```
AV957775.1 GI:19446074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AU256271.1 GI:20319799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Contact: Nori Satoh
Department of Zoology
                                                                                                                                                                                                                                                                                                                                                     2 GGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        66 GCCTGGAGATGTACTTGCT 48
                                                                                                                                                                                                                                                                                                                                                                                 1111 || || || || || || || || || || 26 GGCTTTAAAATGAACTTGA 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3 GCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Clona intestinalis. Ciona intestinalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 73.77
Matches 14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kyoto University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   house mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AU25627.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 10
AV957775/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                               BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AU256271/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMMENT
                                                                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                              /note="Vector: pSPORTI; Site_1: NotI; Site_2: SalI; This CDNA library was constructed from mRNA isolated from somatic embryos (age ranging from 2 months to 9 months) cultured on MSD 20. The library was prepared using the Life Technologies pSuperScript cDNA library construction kit. Complementary DNA was synthesized from mRNA using a poly (dT) sequence with a NotI restrictions site. SalI linkers adapters were ligated to the blunt-ended cDNA fragments followed by NotI digestion. The cDNA fragments were directionally cloned into the NotI-SalI restriction site of the pSPORTI vector. The ligated cDNA fragments were transformed into E.coli ElectroMax DH10B host cells. This library was constructed in the laboratory of Dr. Lila Vodkin by Anu Khanna at the University of Illinois at Urbana-Champaign. e-mail: l-vodkin@uiuc.edu"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         El (Dases 1 to 64)

S. Alonso, J.M., Leisse, T.J., Barajas, P., Chen, H., Cheuk, R., Gadrinab, C., Josse, A., Karnes, M., Kim, C.J., Parker, H., Prednis, L., Shinn, P., Zimmerman, J. and Ecker, J.M., Kim, C.J., Parker, H., Prednis, L., Shinn, P., Zimmerman, J. and Ecker, J.M., Kim, C.J., Parker, H., Prednis, L., Shinn, P., Asquence Indexed Library of Insertion Mutations in the Arabidopsis Genome
Unpublished (2001)

Contact: Joseph R. Ecker
Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute Genomic Analysis Laboratory (SIGNAL)
The Salk Institute Genomic Noila, CA 92037, USA
Tel: 858 453 4100 x1752
Fax: 858 558 6379
Email: ecker@salk.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BH850101 64 bp DNA linear GSS 13-JUN-2002 SALK_070808.52.35.x Arabidopsis thallana TDNA insertion lines Arabidopsis thallana genomic clone SALK_070808.52.35.x, DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta,
Spermatophyta; Magnollophyta; eudicotyledons; core eudicots;
Rosidae; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This is single pass sequence recovered from the left border of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                     /tissue_type="somatic embryos cultured on MSD 20"/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61.0%; Score 12.8; DB 13; Length 75; 81.2%; Pred. No. 6.1e+04; 1; Mismatches 2; Indels
                                                                                                /db_xref="taxon:3847"
/clone="SOYBEAN CLONE ID: Gm-c1036-6692"
/clone_lib="Gm-c1036"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Arabidopsis thaliana"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /clone-"SALK_070808.52.35.x"
                                                                         /organism="Glycine max"
High quality sequence stop: 70. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /strain="Columbia 0"
/db_xref="taxon:3702"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BH850101.1 GI:21420972
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           thale cress.
Arabidopsis thaliana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Class: TDNA tagged
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity 81.2 ses 13; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1111111 | 11111:
35 TGAAGATGGCCTCGAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6 TGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 9
BH850101/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
```

```
AV957775 Nori Satch unpublished cDNA library, egg Clona intestinalis cDNA clone cieg05111 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AU256271 3'-directed mouse CDNA library Mus musculus CDNA clone BED0007940 3', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ö
/clone_lib="Arabidopsis thaliana TDNA insertion lines"
/note="PCR was performed on Arabidopsis thaliana lines
each of Which contents one or more TDNA insertion
each of which contents one or more TDNA insertion
elements. The resultant fragment for each line was
directly sequenced to determine the genomic sequence at
the site of insertion. Details of the protocols used can
the of insertion. Jetails of the protocols used can
a light of light o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea; Enterogona; Phlebobranchia; Cionidae; Ciona.
1 (bases 1 to 74)
Satoh, N., Satou, Y., Kohara, Y. and Shin-1, T.
Expressed genes in Ciona intestinalis
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib="Nori Satoh unpublished cDNA library, egg'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 60.0%; Score 12.6; DB 17; Length 64; Best Local Similarity 78.9%; Pred. No. 7.2e+04; Matches 15; Conservative 0; Mismatches 4; Indels (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: satoheascidian.zool.kyoto-u.ac.jp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /organism="Ciona intestinalis"
/db_xref="taxon:7719"
/clone="cieg05111"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /note="Vector: pBluescript SK" 15 c 17 g 18 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sakyo-ku, Kyoto, Kyoto 606-8502, Japan
Tel: 81-75-753-4081
Fax: 81-75-705-1113
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="whole animal"
/dev_stage="egg"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
```

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. E. (bases 1 to 21)

Kato, K. and Matcha, R. Generation of expressed sequence tags from mouse brain

L. Onpublished (2002)

Contact: Kikuya kato

Graduate School of Biological Sciences

Nara Institute of Science and Technology

8916-5 Takayama, Ikoma, Nara 630-0101, Japan

Tel: 81-743-72-5581

Fax: 81-743-72-5589

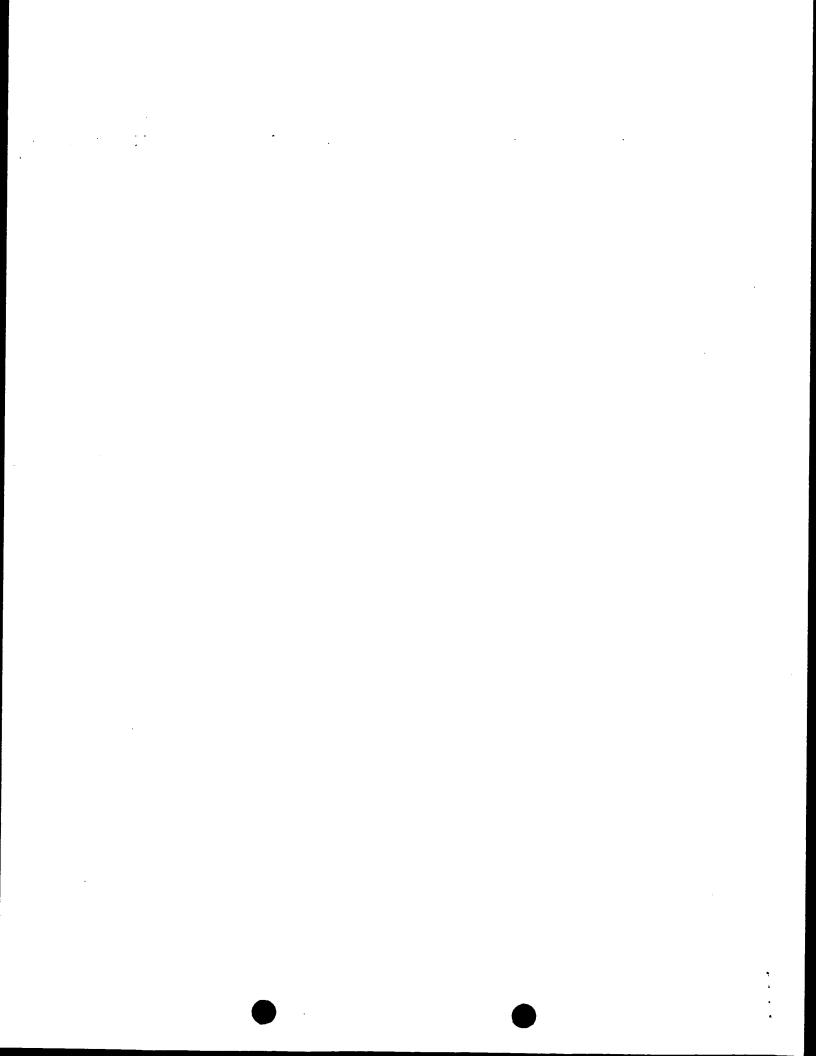
Email: kkato&bs.aist-nara.ac.jp,

URL:http://love2.aist-nara.ac.jp/BED/index.html.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Email: snymicp@yalevm.ycc.yale.edu
Lacz fusion; Vegetative expression; Beta-gal fusion localization
pattern: diffuse cytoplasmic; Disruption phenotype: inviable, large
budded arrest; Fusion: codon 222 of RNR2 gene. Sequence below near
Oc adjacent to lacz.
Seq primer: Lacz sequences in transposon.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomycetales;
Loans 1 to 41)
Burns, N., Grimwade, B., Ross-Macdonald, P.B., Choi, E.-Y., Finberg, K., Roeder, G.S. and Snyder, M.
Large-scale analysis of gene expression, protein localization and gene disruption in Saccharomyces cerevisiae
Genes Dev. 8, 1087-1105 (1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EST 06-JUN-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note="Vector: pRECmIn; A yeast genomic DNA library was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mps v288 The blue guys library Saccharomyces cerevisiae cDNA sequence upstream of LacZ fusion similar to RNR2, M17221, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                  /clone_lib="3'-directed mouse cDNA library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 12.4; DB 9; Length 21;
Pred. No. 6.2e+04;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism-"Saccharomyces cerevistae"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /db_xref="taxon:4932"
/clone_lib="The blue guys library"
/lab_host="E.coli"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mRNA
                                                                                                                                                                                                                                                                                                                                                                                                              /clone_lib=".s c.r.r.
/tissue_type="brain"
/note="Vector: pGEM-T-easy"
2 g 4 t
                                                                                                                                                                                                                                                                                                                                1. .21 /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    41 bp
                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                            /clone="BED0007940"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              raie University
New Haven CT 06520-8103
Tel: 2034326139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               59.0%;
85.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Department of Biology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence.
T17567
T17567.1 GI:458589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 85.7°
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Snyder M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 UGGCTTGAAGATGT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fax: 2034326161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   baker's yeast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  T17567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
COMMENT
                                                                                         TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
T17567/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         UTHORS
                                                   REFERENCE
                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
```

```
prepared in the vector pHSSE, and subjected to transposon mutagenesis with mTn3. This mini-transposon carries lacz sequences that lack an initiation codon; expression of lacz is only provided by in frame fusion to yeast coding sequence. The yeast genomic DNA carrying the transposon was excised from pHSSE and transplaced back onto the yeast chromosome. Yeast colonies expressing lacz were screened for in a color assay. A plasmid containing the genomic DNA/lacz fusion junction was recovered from each individual yeast colony that expressed lacz activity. These recovered plasmids comprise 'The blue guys library'. The fusion junction was then sequenced to identify the expressed ORF upstream of the fusion. " a 14 c 5 g 13 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
Institute of Medical Science, University of Tokyo
Suzuki, Mirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), i49-156 (1997).
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J. (Cases, T. Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Taira, H., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional intiation revealed by fine, large-scale mapping of mRNA start sites
EMBO. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AU103181 Sugano Homo sapiens CDNA library Homo sapiens CDNA clone CAS07662, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone_lib="Sugano Homo sapiens cDNA library"
/note="Differential display comparison of untreated and
dimethylfumarate treated U937 cells"
8 c 17 g 11 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                        58.1%; Score 12.2; DB 14; Length 41; 82.4%; Pred. No. 9.5e+04;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 12.2; DB 9; Length 50; Pred. No. 1e+05; 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                         0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="CAS07662"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AU103181
AU103181.1 GI:13552702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      58.1%;
82.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 GGCTTGAAGATGTACTC 18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3 GCTTGAAGATGTACTCG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       49 GCTTGAACAGGTAATCG 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 (bases 1 to 50)
                                                                                                                                                                                                                                                                                                                                                                                                                                                            14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21270072
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human.
                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 13
AU103181/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
```

```
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mamania; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Mammala; Eutheria; Primates; Catarrhini; Hominidae; Homo.
J. (bases 1 to 50)
Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                   Enkaryota; Metazoa; Chordata; Cranlata; Vertebrata; Euteleostomi; Mammalla; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
Suzuki,Y., Taira, H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997). Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EST 30-AUG-2001
                                       EST 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AU103187 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone HEP04033, mRNA sequence.
AU103187
AU103187.1 GI:13552708
EST.
              הסנונטונטג
AU101182 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
CAS12355, mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /clone_TCASI2355"
//clone_Ibb_Sugano Homo sapiens cDNA library"
//clone_lbb_Sugano Homo sapiens cDNA library"
//note_"Differential display comparison of untreated and
dimethylfumarate treated U937 cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 9; Length 50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                58.1%; Score 12.2; DB 9; Length 5 82.4%; Pred. No. 1e+05; ative 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Yutaka Suzuki
                                                                                                                                    AU103182.1 GI:13552703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 GCTTGAAGATGTACTCG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            44 GCTTGAACAGGTAATCG 28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 82.4
Matches 14; Conservative
                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21270072
                                                                                                                   AU103182
                                                                                                                                                                                                                                                                                                                                                                                                                                              2127007
                                                                                                                                                                                        human.
                                                                                                                                                               EST.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0103187/c
Scus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
RESULT 14
AU103182/c
                                                                  DEFINITION
                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL,
                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 15
                                                                                                                 ACCESSION
                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                            TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
```

```
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA liberry. Gene 200 (1-2), 149-156 (1997). Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                          /organism="Homo saplens"
/db_xref="taxon:9606"
/clone="HEPQ4033"
/clone=lib="Sugano Homo sapiens cDNA library"
/note="Differential display comparison of untreated and dimethylfumarate treated U937 cells"
a 13 c 12 g 15 t
                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                      58.1%; Score 12.2; DB 9; Length 50; 82.4%; Pred. No. 1e+05; tive 0; Mismatches 3; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Search completed: December 23, 2002, 07:14:01
                                                                                                                                                                                                                                                                                                                                                                                                                                                             3 GCTTGAAGATGTACTCG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          37 GCTTGAACAGGTAATCG 21
                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 82.4
Matches 14; Conservative
                                                                                                                                                                                                                                                                                   10 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Job time : 2140 secs
                                                                                                                                                                                                                                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                         BASE COUNT
                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                              ORIGIN
```



```
(without alignments)
124.388 Million cell updates/sec
                                                                                                                               December 23, 2002, 05:39:00; Search time 67 Seconds
GenCore version 5.1.3
Copyright (c) 1993 - 2002 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                          ptal number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                            356696 seqs, 198428768 residues
                                                                                        OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                   1 uggettgaagatgtaetegau 21
                                                                                                                                                                                                                                                                                                             IDENTITY_NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                US-09-805-761-34
21
                                                                                                                                                                                                                                              Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                               Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                Searched:
                                                                                                                                    Run on:
```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Inimum DB seq length: 0 Maximum DB seq length: 75

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

Sequence 2, Appli Sequence 34, Appl Sequence 50, Appl Sequence 28, Appl Sequence 15, Sequence 30, Description Sequence 1 Sequence 1 Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence Sequence US-09-805-761-2 US-09-805-761-34 US-09-805-761-28 US-09-805-761-28 US-09-805-761-28 US-09-805-761-23 US-09-805-761-26 US-09-805-761-26 US-09-805-761-16 US-09-805-761-14 US-09-805-761-18 US-09-805-761-18 US-09-805-761-18 US-09-805-761-18 US-09-805-761-18 US-09-805-761-18 US-09-805-761-18 US-09-805-761-25 US-09-805-761-25 US-09-805-761-25 US-09-805-761-25 US-09-805-761-25 US-09-805-761-25 US-09-805-761-25 SUMMARIES Query Match Length DB 1000.0 1000.0 1000.0 1000.0 95.2 95.2 Score 19 18.4 Result Š

ö

g

Appl Appl Appl

RESULT 2

Sequence 48, Appl Sequence 20, Appl Sequence 21, Appl Sequence 13, Appl Sequence 22, Appl Sequence 12, Appl Sequence 12, Appl Sequence 135, Appl Sequence 12, Appl Sequence 12, Appl Sequence 48, Appl Sequence 48, Appl Sequence 48, Appl Sequence 6, Appl Sequence 6, Appl Sequence 5, Appl Sequence 2, Appl Sequence 2, Appl Sequence 2, Appl Sequence 2, Appl Sequence 23, Appl Sequence 1246, Appl Sequence 34, Appl
US-09-805-761-48 US-09-805-761-20 US-09-805-761-21 US-09-805-761-21 US-09-805-761-13 US-09-917-265-94 US-09-905-761-12 US-09-805-761-12 US-09-805-761-12 US-09-805-761-12 US-09-805-761-12 US-09-805-761-12 US-09-805-761-12 US-09-805-761-12 US-09-905-64-48 US-09-912-64-48 US-09-912-181-181-181-181-181-181-181-181-181-1
2209010201020102010301030100101001010010
88.10.0 661.9 58.11.0 68.11.0
17.8 17.1 15.2 15.2 16.2 16.8 16.8 16.8 17.2 13.6 13.6 13.6 13.6 13.6 13.6 13.6 13.6
01000000000000000000000000000000000000
0 000 00 0 0

ALIGNMENTS

```
Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                           APPLICANT: GLIA, FGLAGENIA
APPLICANT: GLIA, FGLAGENIA
TITLE OF INVENTION: WEFFOR CLIGONUCLECTIDES
TITLE OF INVENTION: WEFF CLIGONUCLECTIDES
FILE REFERENCE: 21327-701CONZ
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-03-13
PRIOR APPLICATION NUMBER: PCT/US01/00019
PRIOR APPLICATION NUMBER: PCT/US01/00019
PRIOR FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR PELING DATE: 2000-11-24
PRIOR PELING DATE: 2000-11-24
PRIOR FILING DATE: 1908-01-30
PRIOR FILING DATE: 1998-01-31
PRIOR FILING DATE: 1998-01-31
NUMBER OF SEQ ID NOS: 64
SOFWWARE: FASLSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match 100.0%; Score 21; DB 9; Length 21; Best Local Similarity 90.5%; Pred. No. 0.047; Matches 19; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-2
                                            Sequence 2, Application US/09805761
Patent No. US20020165174A1
GENERAL INFORMATION:
APPLICANT: G111, Parkesh
APPLICANT: Mascod, Rizwan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
RESULT 1
US-09-805-761-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
```

us-09-805-761-34.rnpb

ö

Gaps

ö

```
GENERAL INFORMATION:

APPLICANT: Alitalo et al

TITLE OF INVENTION: MATERIALS AND METHODS INVOLVING HYBRID VASCULAR

TITLE OF INVENTION: MATERIALS AND METHODS INVOLVING HYBRID VASCULAR

TITLE OF INVENTION: MATERIALS AND PROTEINS

FILE REFERENCE: 28967/35977B

CURRENT APPLICATION NUMBER: US/09/795,006A

CURRENT FILING DATE: 2000-02-26

PRIOR PILING DATE: 2000-05-18

PRIOR PLING APPLICATION NUMBER: US 60/185,205

NUMBER OF SEQ ID NOS: 175

SOFTWARR: PATERIAL NOS: 175

SOFTWARR: PATERIAL OF TABLES OF TAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INCUCRATION:

GENERAL INCUCRATION:

APPLICANT: G11, Parkesh

TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE

TITLE OF INVENTION: VEGF OLIGONUCLEOTIDES

FILE REFERENCE: 21327-701CON2

CURRENT APPLICATION NUMBER: US/09/805,761

CURRENT APPLICATION NUMBER: US/09/805,761

CURRENT APPLICATION NUMBER: US/09/805,761

PRIOR PILING DATE: 2001-01-19

PRIOR FILING DATE: 2000-01-19

PRIOR FILING DATE: 2000-01-19

PRIOR FILING DATE: 1900-01-20

PRIOR PELLING DATE: 1998-01-30

PRIOR PELLING DATE: 1998-01-30

PRIOR FILING DATE: 1998-01-30

PRIOR FILING DATE: 1998-01-30

PRIOR FILING DATE: 1997-01-31

NUMBER OF SEQ ID NOS: 64

SSOFTWARE: FESTEED for Windows Version 4.0

SEQ ID NO 28
                                                                                                  100.0%; Score 21; DB 9; Length 21; 90.5%; Pred. No. 0.047; cive 2; Mismatches 0; Indels .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 100.0%; Score 21; DB 9; Length 33; Best Local Similarity 90.5%; Pred. No. 0.052; Matches 19; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-28
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Sequence 15, Application US/09795006A ; Patent No. US20020151680A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-805-761-28

Sequence 28, Application US/09805761

Patent No. US20020165174A1

GENERAL INFORMATION:
                                                                                                                                                                                                                                                         1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 TGGCTTGAAGATGTACTCGAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM: Artificial Sequence
                                                                                              Query Match
Best Local Similarity 90.5
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 5
US-09-795-006A-15
                        US-09-805-761-50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 48
                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Mixed backbone oligonucleotides, nucleotides 1-4; OTHER INFORMATION: and 18-21 are 2'O methylribonucleosides US-09-805-761-34
                        Sequence 34, Application US/09805761
Sequence 34, Application US/09805761
Sequence 34, Application US/09805761
Sequence 34, Application US/09805761
Septent No. US20020165174A1
APPLICANT: Gill, Parkesh
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: WERFOLGONUCLEOTIDES
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-03-13
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR PILING DATE: 2000-01-19
PRIOR PILING DATE: 2000-11-24
PRIOR PILING DATE: 1000-11-24
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-31
PRIOR PILING DATE: 1997-01-31
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 34
LENGTH: 21

LENGTH: 21

LENGTH: 21

LENGTH: 21

LENGTH: 21

LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-805-761-50/c

Sequence 50, Application US/09805761

Sequence 50, Application US/09805761

Sequence 50, Application US/09805761

Sequence 50, Application US/09805761

SERERAL INFORMATION:

APPLICANT: Gill, Parkesh

APPLICANT: Gill, Parkesh

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE

FILE REFERENCE: 21327-701CON2

CURRENT APPLICATION NUMBER: US/09/805,761

CURRENT FILING DATE: 2001-03-13

PRIOR APPLICATION NUMBER: US 09/487,023

PRIOR RILING DATE: 2000-01-19

PRIOR FILING DATE: 2000-01-29

PRIOR FILING DATE: 2000-11-24

PRIOR FILING DATE: 1998-01-30

PRIOR FILING DATE: 1997-01-31

NUMBER OF SEQ ID NOS: 64

SOFTWARE FEASTERQ FOR WINDOWS VERSION 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 21; DB 9; Length 21; 100.0%; Pred. No. 0.047;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 100.0
Matches 21; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: VEGF-A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAME/KEY: CDS
LOCATION: (1)
US-09-805-761-34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               q
```

ö

Gaps

ö

```
Sequence 16, Application US/09805761
Patent No. US200201651174A1
GENERAL INFORMATION:
APPLICANT: G111, Parkesh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 TGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                  TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 GCCTTGAAGATGTACTCGAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-805-761-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     us-09-805-761-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
OTHER INFORMATION: Description of Artificial Sequence: Artificial chimeric OTHER INFORMATION: oligonucleotide sequence derived from multiple vertebrate vascula OTHER INFORMATION: endothelial growth factor US-09-795-006A-15
                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                               Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ó
                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
APPLICANT: G111, Parkesh
APPLICANT: G111, Parkesh
TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: VEGF OLIGONUCLEOTIDES:
FILE REFERENCE: 21327-701CON3
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-01-19
PRIOR PELING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 2000-01-19
PRIOR PELING DATE: 2000-11-24
PRIOR PELING DATE: 1900-11-24
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR APPLICATION NUMBER: US 00/037,004
PRIOR APPLICATION NUMBER: US 00/037,004
PRIOR APPLICATION NUMBER: US 00/037,004
PRIOR PELING DATE: 1997-01-31
NUMBER OF SEQ ID NOS: 64
SEQ ID NO 30
LENGTH: 62
                                                                                                                         ; Score 21; DB 10; Length 48; Pred. No. 0.056; 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   / Match 100.0%; Score 21; DB 9; Length 62; Local Similarity 90.5%; Pred. No. 0.059; es 19; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Masood, Rizwan
TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: WERE OLIGONUCLEOTIDES
FILE REFERENCE: 21327-701CON2
CURRENT FILING DATE: 2001-03-13
PRIOR APPLICATION NUMBER: PCT/WS01/00019
PRIOR PILING DATE: 2001-01-19
PRIOR FILING DATE: 2001-01-19
PRIOR APPLICATION NUMBER: PCT/WS01/0019
                                                                                                                                                                               0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 23, Application US/09805761
Patent No. US20020165174A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                Sequence 30, Application US/09805761
Patent No. US20020165174A1
                                                                                                                         Query Match 100.0%;
Best Local Similarity 90.5%; F
Matches 19; Conservative 2;
                                                                                                                                                                                                                           1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                    1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23 TGGCTTGAAGATGTACTCGAT 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; LOCATION: (3)...(62)
; OTHER INFORMATION: VEGF-A
US-09-805-761-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Gill, Parkesh
APPLICANT: Masood, Rizwa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                               RESULT 6
US-09-805-761-30/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-805-761-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Mat.ch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 7
                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                      q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Mascod, Rizwan
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: WEGF OLIGONUCLEOTIDES
FILE REFERENCE: 2327-701CON2
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-03-13
PRIOR FILING DATE: 2001-01-19
PRIOR FILING DATE: 2000-01-19
PRIOR FILING DATE: 2000-01-19
PRIOR FILING DATE: 2000-01-19
PRIOR FILING DATE: 1900-01-19
PRIOR FILING DATE: 1900-01-10
PRIOR PRILICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 1990-01-30
PRIOR FILING DATE: 1990-01-30
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 1999-01-30
PRIOR FILING DATE: 1999-01-30
PRIOR FILING DATE: 1999-01-30
PRIOR FILING DATE: 1999-01-30
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-26
                                                                                                                                                                                                                                                                                                                                                                                               ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 9;
0.15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 95.2%; Score 20; DB 9; Best Local Similarity 95.0%; Pred, No. 0.15; Matches 19; Conservative 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 95.2%; Score 20; DB Best Local Similarity 95.0%; Pred. No. 0.15 Matches 19; Conservative 1; Mismatches
PRIOR FILING DATE: 2000-01-19
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 2000-11-24
PRIOR APPLICATION NUMBER: US 09/016,541
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-31
NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSEQ for Windows Version 4.0
SCATUD NO 23
LENGTH: 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 26, Application US/09805761
Patent No. US20020165174A1
GENERAL INFORMATION:
APPLICANT: G111, Parkesh
```

1 GGCTTGAAGATGTACTCGAT 20

g

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
## APPLICANT: Masood, Rizwan
| TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
| TITLE OF INVENTION: WEGF OLICGONUCLEOTIDES
| FILE REFERENCE: 21327-701CON2
| CURRENT APPLICATION NUMBER: US/09/805,761
| CURRENT FILING DATE: 2001-03-13
| PRIOR APPLICATION NUMBER: PCT/US01/00019
| PRIOR FILING DATE: 2000-01-19
| PRIOR PILING DATE: 2000-01-19
| PRIOR PILING DATE: 2000-01-24
| PRIOR APPLICATION NUMBER: US 09/016,541
| PRIOR APPLICATION NUMBER: US 09/016,541
| PRIOR PILING DATE: 1998-01-30
| PRIOR PILING DATE: 1998-01-30
| PRIOR FILING DATE: 1997-01-31
| NUMBER OF SED ID NOS: 64
| SEQ ID NO 16
| LENGTH 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: MASSOCIA RIZWAN

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: WESF OLIGONUCLEOTIDES
FILE REFERENCE: 2327-701CON2
CURRENT FILING DATE: 2001-03-13
PRIOR APPLICATION NUMBER: US /09/805,761
PRIOR APPLICATION NUMBER: US 09/487,023
PRIOR FILING DATE: 2000-01-19
PRIOR FILING DATE: 2000-01-19
PRIOR FILING DATE: 2000-11-24
PRIOR FILING DATE: 2000-11-24
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-30
PRIOR FILING DATE: 1998-01-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95.2%; Score 20; DB 9; Length 21; 95.0%; Pred. No. 0.16; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     95.2%; Score 20; DB 9; Length 21; 95.0%; Pred. No. 0.16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 17, Application US/09805761 Patent No. US20020165174A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 UGGCTTGAAGATGTACTCGA 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 TGGCTTGAAGATGTACTCGA 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 95.0%
Matches 19, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 95.0° Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Gill, Parkesh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-805-761-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
```

```
SEGURATE TO THE PRICE OF THE PROPERTY OF THE P
```

ö

```
SEQ ID NO 18
LENGIH: 21
                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                  TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                              FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                             US-09-805-761-27

Sequence 27, Application US/09805761

Fatent No. US20020165174A1

GENERAL INFORMATION:

APPLICANT: MASOO4, RIVAN

TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE

TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE

TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE

TITLE OF INVENTION: UNBER: US/09/805,761

CURRENT APPLICATION NUMBER: US/09/805,761

CURRENT FILING DATE: 2001-01-19

PRIOR FILING DATE: 2001-01-19

PRIOR PAPLICATION NUMBER: US/09/487,023

PRIOR PAPLICATION NUMBER: US/09/016,541

PRIOR PILING DATE: 1999-01-30

PRIOR APPLICATION NUMBER: US/09/016,541

PRIOR PILING DATE: 1997-01-31

NUMBER OF SEQ ID NOS: 64

SEQ ID NO 27

LENGTH. 199

**COFFWARE: FastSEQ for Windows Version 4.0

LENGTH. 199

**COFFWARE: PASSOOF TOWNORDS: CANTON NUMBER: US/09/01-31

**COFFWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 15, Application US/09805761

Sequence 15, Application US/09805761

Sequence 15, Application US/09805761

SERENCE INFORMATION:

APPLICANT: G111, Parkesh

APPLICANT: G111, Parkesh

TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR ANTISENSE

TITLE OF INVENTION: WEEF OLICONUCLEOTIDES

FILE REFERENCE: 21327-701C0N2

CURRENT APPLICATION NUMBER: US/09/805,761

CURRENT FILING DATE: 2001-01-19

PRIOR FILING DATE: 2001-01-19

PRIOR FILING DATE: 2000-01-19

PRIOR PILING DATE: 2000-01-19
                                                                                               90.5%; Score 19; DB 9; Length 19; 94.7%; Pred. No. 0.5; Live 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 90.5%; Score 19; DB 9; Length 19; 94.7%; Pred. No. 0.5; Live 1; Mismatches 0; Indels
; FEATURE:
; OTHER INFORMATION: VEGF antisense oligonucleotide
US-09-805-761-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Artificial Sequence
                                                                                                                                                                                            3 GCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                 1 UGGCTTGAAGATGTACTCG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 90.5%
Best Local Similarity 94.7%
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity 94.7 hes 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-09-805-761-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Loca
Matches
                                                                                                                                                                                            ð
```

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: MASCOG RIEWAN

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANTISENSE
TITLE OF INVENTION: WEEF OLIGONUCLEOTIDES
FILE REPERENCE: 21327-701CONZ
CURRENT APPLICATION NUMBER: US/09/805,761
CURRENT FILING DATE: 2001-01.13
PRIOR APPLICATION NUMBER: US/09/487,023
PRIOR FILING DATE: 2000-01.19
PRIOR PELICATION NUMBER: US 09/487,023
PRIOR PELICATION NUMBER: US 09/016,541
PRIOR PILING DATE: 1000-01.19
PRIOR FILING DATE: 1998-01.30
PRIOR FILING DATE: 1998-01.30
PRIOR FILING DATE: 1999-01.31
NUMBER OF SEQ ID NOS: 64
SOFTWARR: PESSESEQ FOR WINDOWS VERSION 4.0
                                                                                                                                                                                                                                                                                                                       Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    90.5%; Score 19; DB 9; Length 21; 94.7%; Pred. No. 0.51; Live 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                       0; Indels
                                                                                                                                                                                                                                          ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; OTHER INFORMATION: VEGF antisense oligonucleotide US-09-805-761-18
                                                                                                                                                                                                                                                                                                             90.5%; Score 19; DB 9; 94.7%; Pred. No. 0.51; tive 1; Mismatches
PRIOR FILING DATE: 1998-01-30
PRIOR APPLICATION NUMBER: US 60/037,004
PRIOR FILING DATE: 1997-01-31
NUMBER OF SEQ ID NOS: 64
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 15
LENGTH: 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Search completed: December 23, 2002, 07:16:43
Job time : 67 secs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 18, Application US/09805761
Patent No. US20020165174A1
                                                                                                                                                                                        ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                               1 UGGCTTGAAGATGTACTCG 19
                                                                                                                                                                                                                                                                                                                                                                                                                                          3 TGGCTTGAAGATGTACTCG 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   3 GCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity 94.79
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity 94.7
Matches 18; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
APPLICANT: Gill, Parkesh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 15
US-09-805-761-18
```

GenCore version 5.1.3 Copyright (c) 1993 - 2002 Compugen Ltd.

December 23, 2002, 05:06:49; Search time 3267 Seconds (without alignments) 187.070 Million cell updates/sec OM nucleic - nucleic search, using sw model US-09-805-761-34 21 1 uggcttgaagatgtactcgau 21 Title: Perfect score: Sequence: Run on:

stal rumber of hits satisfying chosen parameters: Inimum DB seq length: 0 Maximum DB seq length: 75

2054640 segs, 14551402878 residues

IDENTITY_NUC Gaport 1.0

Scoring table:

Searched:

941340

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

90-ba:*
90-ba:*
90-ba:*
90-om:*
90-om:*
90-om:*
90-pr:*
90-pr: GenEmbl:* 55. 7.7. 7 Database :

em_htgo_other:* em_htg_mam:*
em_htg_vrt:*
em_sy:*
em_htgo_hum:*
em_htgo_mus:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

_		. z	ALIGNMENTS	SCIPTION SECTION SECTI	· · · · · · · · · · · · · · · · · · ·	0	- D B C C C C C C C C C C C C C C C C C C	A :	он	0: 2 8 7 7 8 8 7 7 8 8 7 7 8 8 7 8 8 7 8 8 8 7 8	0.7
ALIGNMENTS AR170717 21 bp DNA linear PAT N AR170717 AR170717.1 GI:17908676	ALIGNMENTS AR170717 21 bp DNA linear PAT N Sequence 2 from patent US 6291667.			luence letic			0 0	109	65.	e	1 4 1 (2)
13.8 65.7 60 6 A15397 ALIGNMENTS AR170717	13.8 65.7 60 6 A15397 ALIGNMENTS AR170717 AR170717 21 bp DNA linear PAT N Sequence 2 from patent US 6291667.	ALIGNMENTS	5 13.8 65.7 60 6 A15397 A15397 Synthetic	nenc			o v	2.0	99	14	4 4 2 4
14 66.7 20 6 AK18923 AK118923 13.8 65.7 60 6 A15397 AK203675 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717	13.8 65.7 20 b ANIB923 13.8 65.7 21 6 A15397 A15397 Sylvanian A15397 Sylvanian A15397 Sylvanian A15397 Sylvanian A15397 Sylvanian A170717 AR170717	14 00.7 20 0 AKLIB923 AKLIB923 Sequence 4 14 66.7 21 6 AX203675 AX203675 Sequence 5 13.8 65.7 60 6 A15397 AX203675 Synthetic	14 66.7 21 6 AX203675 AX203675 Sequence AX203675 Sequence 5 13.8 65.7 60 6 AI5397 AI5397 Synthetic	neuc			, o v	100	99	14	4.
14 66.7 19 6 AX081926 AX081926 14 66.7 20 6 AR118923 AR118923 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717	14 66.7 19 6 AX081926 AX081926 14 66.7 20 6 AR118923 AR118923 14 66.7 21 6 AX203675 AX203675 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717 AR170717 21 bp DNA linear PAT N Sequence 2 from patent US 6291667.	42 14 66.7 19 6 AX081926 AX081926 Sequence 43 14 66.7 20 6 AR118923 AR118923 Sequence 44 14 66.7 21 6 AX203675 AX203675 Sequence 45 13.8 65.7 60 6 A15397 A15397 Synthetic	42 14 66.7 19 6 AX081926 AX081926 Sequence 43 14 66.7 20 6 AR118923 AR118923 Sequence 44 14 66.7 21 6 AX203675 AX203675 Sequence 45 13.8 65.7 60 6 A15397 A15397 Synthetic	nenc			9	16	. 66	14	41
14 66.7 19 6 AX081924 AX081924 AX081924 14 66.7 19 6 AX081926 AX081926 AX081926 AX081926 AX081925 AX081925 AX203675 A2203675 A2203675 A2203675 A2203675 A2203675 A2203675 A2203675 A2203675 A2203676 AX203676 AX20	14 66.7 19 6 AX081924 AX081924 AX081924 14 66.7 19 6 AX081926 AX081926 AX081926 AX081926 AX081925 AX081925 AX203675 AX20	41 14 66.7 19 6 AX081924 AX081924 Sequence 42 14 66.7 19 6 AX081926 AX081926 AX081926 Sequence 43 14 66.7 20 6 AR118923 AR118923 Sequence 44 14 66.7 20 6 AX203675 AX203675 Sequence 45 13.8 65.7 60 6 A15397 AX203675 Squence	41 14 66.7 19 6 AXO81924 AXO81924 Sequence 42 14 66.7 19 6 AXO81926 AXO81926 Sequence 43 14 66.7 20 6 ARI18923 ARI18923 Sequence 44 14 66.7 21 6 AXZ03675 AXZ03675 Sequence 45 13.8 65.7 60 6 AI5397 AI5397 Synthetic	luenc		ო -	ی م	ر ب د	0 0	4	υ 4 Ο 0
14.2 67.6 39 6 AAII1382 AX011382 14 66.7 19 6 AX009121 AX009121 14 66.7 19 6 AX081926 AX081926 14 66.7 20 6 AX18923 AX0819292 14 66.7 21 6 AX203675 13.8 65.7 60 6 AI5397 AX203675 ARITO717 ARITO717 21 bp DNA linear PAT ARITO717.1 GI:17908676	14.2 67.6 39 6 AAII1382 AX019121 14 66.7 19 6 AX09121 AX081221 14 66.7 19 6 AX081926 AX081926 14 66.7 20 6 AX18923 AX081925 14 66.7 21 6 AX203675 AX18923 14 66.7 21 6 AX203675 AX18923 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717 21 bp DNA 11near PAT N Sequence 2 from patent US 6291667.	40 14.2 67.5 39 6 AXIII382 AXIII382 Sequence 41 14 66.7 19 6 AX009121 AX009121 Sequence 42 14 66.7 19 6 AX081926 AX081924 Sequence 43 14 66.7 19 6 AX18923 AX18923 Sequence 44 14 66.7 20 6 ARII8923 AX18923 Sequence 45 13.8 65.7 60 6 AIS397 AX203675 Sequence 45 13.8 65.7 AX203675 AX203675 Sequence 45 13.8 65.7 AX203675 AX203675 Sequence	59 14.2 b/.b 39 b AXIII382 AXIII382 AXIII382 AX009121 40 14 66.7 18 6 AX081924 AX081924 AX081924 AX081924 AX081924 AX081926 Sequence 42 14 66.7 19 6 AX081926 AX081926 Sequence 43 14 66.7 20 6 AR118923 AR118923 Sequence 44 14 66.7 21 6 AX203675 Sequence 45 13.8 65.7 60 6 A15397 A15397 Synthetic	neuc		AX203677	φı	21	68.	4.	98
14.4 68.6 21 6 AX203677 AX203677 14.4 68.6 21 6 AX203677 14.4 66.7 18 6 AX111382 AX09121 14 66.7 19 6 AX081924 AX081924 14 66.7 20 6 AX1818923 14 66.7 21 6 AX203675 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717	14.4 68.6 21 6 AX203677 AX203677 14.4 68.6 21 6 AX203677 14.4 66.7 18 6 AX019124 AX011382 14 66.7 19 6 AX081924 AX081924 14 66.7 20 6 AR118923 14 66.7 21 6 AX203675 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717 AR170717 AR170717 21 bp DNA linear PAT AR303679 AR203679 AL160MENTS	38 14.4 68.6 21 6 AX203677 AX203677 Sequence 40 14 66.7 39 6 AX111382 AX11382 Sequence 41 14 66.7 19 6 AX009121 AX009121 Sequence 42 14 66.7 19 6 AX081926 AX081924 Sequence 43 14 66.7 20 6 AR118923 AX081925 Sequence 44 14 66.7 21 6 AX203675 AX203675 Sequence 45 13.8 65.7 60 6 A15397 AX203675 Sequence 45 13.8 65.7 60 6 A15397 AX203675 Sequence	38 14.4 68.6 21 6 AX203677 AX203677 AX203677 Sequence 40 14 66.7 18 6 AX009121 AX009121 AX089124 AX081924 AX081924 AX081924 AX081924 AX081924 AX081924 AX081924 AX081924 Sequence 43 14 66.7 19 6 AX081926 AX181923 AX1819923 AX1819923 Sequence 44 14 66.7 21 6 AX203675 Sequence 45 13.8 65.7 6 A15397 A15397 Synthetic	AX365962 Sequence		AX365962	9	24	70.	4	en i
14.8 70.5 24 6 AX365962 AX365962 14.4 68.6 21 6 AX203677 AX203677 14.2 67.6 21 6 AX203677 AX11382 14.4 66.7 18 6 AX009121 AX081924 14 66.7 19 6 AX081926 AX081926 14 66.7 20 6 AX1818923 14 66.7 21 6 AX203675 14 66.7 21 6 AX203675 13.8 65.7 60 6 A15397 ALIGNMENTS AR170717 21 bp DNA linear PAT AR170717 AR170717 21 bp DNA linear PAT AR170717.1 GI:17908676	14.8 70.5 24 6 AX365962 AX365962 14.4 68.6 21 6 AX203677 AX203677 14.2 68.6 21 6 AX203677 AX11381 14.4 66.7 18 6 AX009121 AX009121 14.66.7 19 6 AX081924 AX081924 14.66.7 21 6 AX081926 AR118923 14.66.7 21 6 AX203675 13.8 65.7 60 6 AL5397 ALIGNMENTS AR170717 AR170717 21 bp DNA linear PAT	37 14.8 70.5 24 6 AX365962 AX365962 AX365962 Sequence 38 14.4 68.6 21 6 AX203677 AX203677 Sequence 40 14.6 6.7 39 6 AX111382 AX203677 Sequence 41 14 66.7 19 6 AX099121 AX099121 Sequence 42 14 66.7 19 6 AX081926 AX081924 Sequence 43 14 66.7 19 6 AX081926 AX081926 AX081926 Sequence 44 14 66.7 20 6 AR118923 AX203675 Sequence 45 13.8 65.7 60 6 A15397 Synthetic AI5397 Synthetic	37 14.8 70.5 24 6 AX365962 AX36577 AX36577 AX36577 AX36577 AX36577 AX36577 AX361506 AX	ense		E14235 AX203676	ی م	3 5	71.	15.	n 9
15 /1.4 20 6 E14235 A120366 A236506 A2365062 A23662 A23662 A23662 A23662 A23662 A236262 A	15 /1.4 20 6 E14235 A1 214.25 An 203676 14.8 70.5 24 6 Ax365962 Ax111382 Ax11382 Ax081924 Ax081924 Ax081924 Ax081924 Ax081926 AR118923 Ax203675 A15397 Ax170717 Ax117387 Ax18737 Ax18737 Ax1870717 Ax1170717 Ax1	35 15 71.4 20 6 E4425 E4425 ANTIBERSE 36 15 71.4 21 6 AX203676 AX203676 Sequence 38 14.4 68.6 21 6 AX203677 AX203677 Sequence 39 14.2 67.6 39 6 AX111382 AX203677 Sequence 41 14 66.7 19 6 AX081924 AX081924 Sequence 42 14 66.7 20 6 AX118923 Sequence 43 14 66.7 20 6 AX118923 Sequence 44 15 5.7 60 6 ALS397 AX203675 Sequence 45 13.8 65.7 60 6 ALS397 AX203675 Sequence	35 15 71.4 20 6 E1423 ARTIBERSE 36 15 71.4 21 6 AX203676 AX203676 Sequence 37 14.8 70.5 24 6 AX365962 AX365962 Sequence 38 14.4 68.6 21 6 AX203677 AX113132 Sequence 40 14 66.7 18 6 AX09121 AX09121 Sequence 41 14 66.7 19 6 AX081924 AX081924 Sequence 43 14 66.7 20 6 AR118925 Sequence 43 14 66.7 20 6 AR118925 Sequence 44 14 66.7 20 6 AR118925 Sequence 45 13.8 65.7 60 6 AIS397 Synthetic	luence		AR118925	9	200	71.	15	34
15 71.4 20 6 AR118925 AR118925 AR118925 AR118925 AR203676 AR203676 AR203676 AR203676 AR203676 AR203676 AR203677 AR203	15 71.4 20 6 AR118925 AR118925 AR118925 AR118925 AR203676 AR203676 AR203676 AR203676 AR203676 AR203676 AR203676 AR203677 AR203	34 15 71.4 20 6 RM118925 Sequence 36 15 71.4 20 6 E14235 ARX18686 36 15 71.4 20 6 E14235 ARX18686 37 14.8 70.5 24 6 AX365962 AX365962 AX365962 Sequence 39 14.2 67.6 39 6 AX11382 AX009121 AX009121 Sequence 41 14 66.7 18 6 AX081924 AX009121 Sequence 43 14 66.7 19 6 AX081926 AX081924 Sequence 43 14 66.7 20 6 AR118923 Sequence 45 13.8 65.7 60 6 AL3397 AX203675 Sequence 45 13.8 65.7 60 6 AL3397 AX15397 Synthetic	34 15 71.4 20 6 RR118925 AR118925 Sequence 36 15 71.4 20 6 E14235 AR188888 36 15 71.4 20 6 E14235 AR188888 37 14.8 70.5 24 6 AX365962 AX365962 Sequence 39 14.4 68.6 21 6 AX11382 AX11382 AX11382 AX11382 Sequence 40 14 66.7 18 6 AX109121 AX009121 Sequence 41 14 66.7 19 6 AX081924 AX081924 AX081924 Sequence 43 14 66.7 19 6 AX188923 Sequence AX203675 Sequence 43 14 66.7 19 6 AX081924 AX081924 Sequence 43 14 66.7 19 6 AX188923 Sequence 44 14 66.7 20 6 AX18823 AX203675 Sequence 45 13	AX203687 Sequence		AX203687	9	18	71.	12	3 E
15 71.4 18 6 AX203610 AX203610 AX203610 15 71.4 18 6 AX203610 AX203670 AX203670 AX203670 AX203670 AX203670 AX365962 AX203670 AX365962 AX203670 AX20	15 71.4 18 6 AX203610 15 71.4 20 6 AR18925 15 71.4 20 6 E14235 15 71.4 20 6 E14235 14 20 6 E14235 14 20 6 E14235 14 4 68.6 21 6 AX203677 14 5 67.6 21 6 AX303677 14 66.7 18 6 AX01387 14 66.7 19 6 AX081924 14 66.7 20 6 AX118923 14 66.7 21 6 AX081926 15 66.7 21 6 AX081926 16 66.7 20 6 AX188923 17 66.7 20 6 AX188923 18 65.7 60 6 A15397 ALIGNMENTS AR170717 ALIGNMENTS AR170717	3.2 15 71.4 16 6 AX203607 AX203607 Sequence 3.4 15 71.4 20 6 AX18925 AX203607 Sequence 3.4 15 71.4 20 6 E14235 AX203607 AX203607 Sequence 3.5 11.4 20 6 E14235 AX203607 Sequence 3.6 15 71.4 20 6 E14235 AX203607 AX203607 AX203607 Sequence 3.8 14.4 68.6 21 6 AX203677 AX203607 Sequence 3.9 14.2 67.6 39 6 AX11132 AX203607 Sequence 4.1 14 66.7 19 6 AX081924 AX009121 Sequence 4.1 14 66.7 19 6 AX081926 AX009122 Sequence 4.1 14 66.7 20 6 AX118923 Sequence 4.1 14 66.7 20 6 AX118923 Sequence 4.1 14 66.7 20 6 AX1892 AX203675 Sequence 4.1 18 6.7 20 6 AX18923 AX118923 Sequence 4.1 18 65.7 60 6 A15397 AX118923 Sequence 4.1 18 65.7 60 6 A15397 AX11892	33 15 71.4 16 6 AX203607 AX203607 Sequence 34 15 71.4 20 6 RR118925 AR118925 Sequence 35 15 71.4 20 6 RR118925 Sequence 36 15 71.4 20 6 RR1235 AR1235 AR118925 Sequence 36 15 71.4 20 6 RA203676 AX203676 Sequence 37 14.8 70.5 24 6 AX203676 AX365962 Sequence 38 14.4 68.6 21 6 AX203677 AX365962 Sequence 40 14 66.7 18 6 AX101382 AX203677 Sequence 40 14 66.7 19 6 AX081924 AX081924 Sequence 41 14 66.7 19 6 AX081924 AX081924 Sequence 42 14 66.7 20 6 AR118925 Sequence 43 14 66.7 20 6 AR118925 Sequence 44 14 66.7 20 6 AR118925 Sequence 45 13.8 65.7 60 6 AIS397 Synthetic			E50976	6 4	36	72.	ທ	m r
15.2 72.4 36 E50976 ASO976 ASO99100 15	15.2 72.4 36 E50976 BE50976 AX009100 15	31 15.2 72.4 36 6 E50976 Ax009100 32 15 71.4 16 6 Ax009100 Ax009100 33 15 71.4 16 6 Ax118925 Ax118925 34 15 71.4 20 6 AX118925 B14236 Ax118925 36 15 71.4 20 6 E14235 B14238 Ax118925 36 14.8 70.5 24 6 Ax203676 Ax20367 Ax20367 39 14.2 67.6 39 6 Ax111382 Ax20367 Ax20367 40 14 66.7 19 6 Ax009121 Ax009121 Ax009121 41 16.7 19 6 Ax009124 Ax009121 Ax009121 43 14 66.7 19 6 Ax009124 Ax009121 44 16.7 20 6 AR118923 Ax118923 Seque 45 13.8 65.7 60 6 A15397 Ay15397	31 15.2 72.4 36 6 E50976 Ax009100 32 15 71.4 16 6 Ax009100 Ax009100 33 15 71.4 16 6 Ax118925 Ax118925 34 15 71.4 20 6 AR118925 AX118925 36 15 71.4 20 6 AX118925 AX118925 37 14.8 70.5 24 6 Ax203676 Ax203676 38 14.4 68.6 21 6 Ax203677 Ax203677 40 14 66.7 18 6 Ax111382 Ax111382 41 14 66.7 19 6 Ax08124 Seque 42 14 66.7 19 6 Ax08124 Seque 43 14 66.7 19 6 Ax181382 Ax1818923 Seque 44 14 66.7 19 6 Ax181923 Seque 44 14 66.7 20 6 Ax1818923 Seque 45 13 6 Ax203675 Seque	luence		A91017	ص د	3 6	72.	ומו	4 (5)
15.2 72.4 36 6 E50976 15. 71.4 16 6 AX203607 15. 71.4 20 6 AR118925 15. 71.4 20 6 E14235 15. 71.4 20 6 E14235 15. 71.4 20 6 E14235 14.8 70.5 24 6 AX203677 14.2 66.7 21 6 AX203677 14.4 68.6 21 6 AX203677 14.4 66.7 21 6 AX203677 14.6 66.7 19 6 AX081924 14 66.7 19 6 AX081924 14 66.7 21 6 AX081924 14 66.7 21 6 AX081924 15. 7 21 6 AX203675 13.8 65.7 60 6 AL18923 13.8 65.7 60 6 AL18923 13.8 AX203675 13.8 AX203675 14 66.7 21 6 AX203675 14 66.7 21 6 AX203675 14 66.7 21 6 AX203675 15.8 65.7 60 6 AL18923 16 AX203675 17 6 AX203675 18 65.7 19 6 AX081926 18 65.7 19 6 AX081926 19 6 AX081926 19 6 AX081926 19 6 AX081926 10 7 21 6 AX203675 10 8 AX170717 10 11:17908676	15.2 72.4 36 6 E50976 15. 71.4 16 6 AX203607 15. 71.4 20 6 AR118925 15. 71.4 20 6 E14235 15. 71.4 20 6 E14235 14.8 70.5 24 6 AX203677 14.2 66.5 21 6 AX203677 14.4 68.6 21 6 AX203677 14.4 66.7 19 6 AX09121 14 66.7 19 6 AX09124 14 66.7 19 6 AX09124 14 66.7 21 6 AX09124 14 66.7 20 6 AR118923 13.8 65.7 60 6 AL1397 ALIGNMENTS AR170717 AR170717 AR170717 AR170717 AR1 BAT ART ART ART ART ART ART ART ART ART A	15.2 72.4 36 6 A91017 Sequence 15.2 72.4 36 6 E50976 A50010 Sequence 15.2 72.4 36 6 E50976 A50010 Sequence 15.2 72.4 36 6 E50976 A500100 Sequence 15.2 72.4 36 6 E50976 A5009100 Sequence 15.2 71.4 16 6 AX2003687 AX203697 Sequence 15.2 71.4 20 6 AR118925 A71.4 20 6 A7203676 A7203676 A7203676 Sequence 14.4 68.6 21 6 A7203677 Sequence 14.4 66.7 19 6 A7201924 A7201924 A7201926 Sequence 14.4 66.7 20 6 AR118923 A7203675 A7203675 A7203675 A7203675 A7203675 A7203675 Sequence 15.2 13.8 65.7 60 6 A15397 A7203675	29 15.4 6 AX203678 AX203678 AX203678 AX203678 AX203678 AX203678 AX20367 Seque AX20367 AX20367 AX20367 AX20367 Seque AX20367 AX20367 Seque AX20367 AX20367 Seque AX20367 AX20367 Seque AX20367 AX20367 AX20367 Seque AX08124 AX08124 AX08124 AX08124 AX08124 Seque AX08124 Seque AX08124 Seque AX08124 Seque AX08124 AX08124 Seque AX08124 Seque AX08124 AX08124 AX08124 AX08124 Seque AX11182 AX08124 AX08124 AX08124 AX08124 AX08124 AX08124 AX08124 AX08124 AX08124 AX203675 Seque	AX203686 Sequence		AX203686	9 v	19	76.	u	28
16 76.2 19 6 AX203686	16 76.2 19 6 AX203686	28 15.4 73.3 21 6 AX203686 AX203686 Seque 29 15.4 73.3 21 6 AX203678 AX203678 AX203678 Seque 30 15.2 72.4 36 6 A91017 A91017 Seque 31 15.2 72.4 36 6 E50976 AX009100 AX009100 Seque 32 15 71.4 16 6 AX009100 AX203678 Seque 33 15 71.4 20 6 AR118925 B14235 AR118925 Seque 35 17.4 20 6 AR118925 B14235 AR118925 Seque 36 15 71.4 20 6 AR203676 AX203676 Seque 37 14.8 68.6 21 6 AX203677 AX203367 Seque 40 14.4 68.6 21 6 AX203677 AX203367 Seque 40 14.6 6.7 19 6 AX009121 AX009121 Seque 41 66.7 19 6 AX009121 AX009121 Seque 42 14 66.7 20 6 AR118923 AX009122 AX009122 Seque 43 14 66.7 20 6 AR118923 AX203675 Seque 44 16.7 21 6 AX203675 AX203675 Seque 45 13.8 65.7 60 6 A15397 Synthet	28 16 76.2 19 6 Ax203686 Seque 29 15.4 73.3 21 6 Ax203678 Ax203686 Seque 30 15.2 72.4 36 E50976 Ax00910 Ax00910 Seque 31 15.2 71.4 16 6 Ax00910 Ax00910 Seque 34 15 71.4 16 6 Ax118925 Ax118925 Seque 34 15 71.4 20 6 AR118925 Seque Ax20367 Seque 35 14.2 20 6 AX118925 AX20367 Ax20367 Seque 37 14.8 70.5 24 6 Ax203676 Ax20367 Ax20367 Seque 40 14.2 68.6 21 6 Ax203677 Ax20367 Ax20367 Seque 41 66.7 19 6 Ax009121 Ax009122 Ax009122 Seque 42	AX109101 Sequence AX133299 Sequence		AX133299	ο •	110	76.	197	101
15.4 76.2 19 6 AX133291 1 AX103291 1 15.4 73.3 19.9 1 15.4 73.3 19.6 AX203686 15.4 73.3 3 16 AX203686 15.2 72.4 36 6 E50976 89.0107 58.0 15.2 72.4 36 6 E50976 89.0107 15.7 1.4 20 6 AX103897 AX203697 15.7 1.4 20 6 AX103897 AX203677 14.4 68.6 21 6 AX203677 AX203677 14.4 68.6 21 6 AX203677 AX203677 14.4 66.7 19 6 AX081924 AX081924 AX081924 AX081924 AX081924 AX081924 AX081925 14 66.7 21 6 AX203675 AX203675 13.8 65.7 60 6 AX13397 AX10377 AX11382 AX203675 AX203675 AX203677 AX11382 AX203677 AX11382 AX203677 AX11382 AX203675 AX081924	15.4 76.2 19 6 AX133291 1 AX103291 1 15.4 73.3 19.6 AX133291 15.4 73.3 19.6 AX203686 15.4 73.3 29.6 AX203686 15.2 72.4 36 6 E50976 89.0107 20.4 36 6 E50976 89.0107 20.4 36 6 E50976 89.0107 15.2 72.4 36 6 E50976 89.0107 15.2 72.4 36 6 E50976 89.0107 17.4 20 6 AX103897 AX103892 15.7 1.4 20 6 AX103897 AX20367 15.7 1.4 20 6 E14235 15.7 1.4 20 6 E14235 14.4 68.6 21 6 AX203677 AX103892 14.4 66.7 19 6 AX091924 AX081924 14 66.7 19 6 AX091924 AX081924 AX081924 AX081924 AX081924 AX081924 AX081925 AX11389 AX203675 13.8 65.7 60 6 A15397 A15397 Synthematics of the patent US 6291667.	27 16 76.2 19 6 AX103101 AX103101 AX103101 AX103201 Seque 28 15.4 73.3 21 6 AX203686 Seque 30 15.2 72.4 36 6 A91017 Seque 31 15.2 72.4 36 6 E50976 AX203686 Seque 32 15.7 4 36 6 E50976 AX009100 Seque 33 15.7 1.4 16 6 AX009100 Seque 33 15 71.4 20 6 AR118925 Seque 34 15 71.4 20 6 AR118925 Seque 36 15 71.4 20 6 AR118925 Seque 37 14.8 68.6 21 6 AX203676 Seque 39 14.2 67.6 5 46 AX203677 AX20367 Seque 40 14.4 68.6 21 6 AX203677 AX20367 Seque 40 14.6 67 19 6 AX10382 Seque 41 16.7 19 6 AX009121 AX009121 Seque 42 14 66.7 19 6 AX009121 AX009121 Seque 43 14 66.7 20 6 AR118923 AX11892 Seque 44 66.7 20 6 AR118923 AX203675 Seque 45 13.8 65.7 60 6 A15397 Spithert	27 16 76.2 19 6 AXX03050 AXX133299 Seque 28 15.4 73.3 21 6 AXX203686 Seque AXX133299 Seque Seque AXX133299 Seque Seque Seque AXX133299 Seque Seque Seque Seque AXX133299 Seque Seque AXX133299 Seque Seque AXX133299 AXX133299 Seque AXX133299 AXX133299 Seque AXX133299 AXX133299 Seque AXX133299 AXX133299 AXX133299 AXX133299 AXX133299 AXX133299 AXX133299 AXX133299 AXX111802 AXX111802 Seque AXX111802 AXX111802 AXX111802 Seque AXX111802 AXX111802 AXX111802 Seque AXX111802 Seque AXX111802 AXX111802 Sequ	AX203685 Sequence		AX203685	y q	20	81.	17	25 26
17 81.0	17 81.0	25 17 81.0 20 6 AX203685 AX203685 Seque 27 16 76.2 16 6 AX20309101 AX133299 Seque 28 16 76.2 19 6 AX203696 AX203695 Seque 29 15.4 73.3 2 16 AX20369 Seque 29 15.4 73.3 2 16 AX20369 Seque 20 15.2 72.4 36 6 A91017 Seque 29 15.2 72.4 36 6 A91017 Seque 29 15.2 72.4 36 6 A91017 Seque 29 15.1 15.2 72.4 36 6 A200100 AX203695 Seque 31 15.2 72.4 36 6 A200100 AX20369 Seque 31 15.2 72.4 36 6 E50976 AX20369 Seque 31 15.2 72.4 36 6 A200100 AX20369 Seque 32 15 71.4 18 6 AX203697 AX20369 Seque 33 15 71.4 20 6 E14235 B14235 AR118925 Seque 34 14.4 68.6 21 6 AX203676 Seque 39 14.2 67.6 39 6 AX11382 AX003121 Seque 40 14 66.7 19 6 AX003121 AX003121 Seque 41 66.7 19 6 AX003121 AX003121 Seque 42 14 66.7 20 6 AR118923 AX111382 Seque 43 14 66.7 20 6 AR118923 AX111382 Seque 44 16.7 21 6 AX203675 AX203675 Seque 44 15.5 7 60 6 AIS397 Synthet	25 17 20 6 AX203685 AX203665 Seque 27 16 76.2 19 6 AX203696 AX203695 AX203695 AX20369 Seque 28 16 76.2 19 6 AX203696 Seque AX20369 Seque AX20367 AX20367 AX20367 AX20367 AX20367 AX20367 AX20367 AX20367 AX20367 Seque AX009121 AX009124 AX009124 Seque AX009124 AX009124 AX009124 AX009124 AX009124 AX009124 AX009124 AX009124 AX203675 <td< td=""><td>AX203713 Sequence</td><td></td><td>AX203713</td><td></td><td>21</td><td>84</td><td>7</td><td>24</td></td<>	AX203713 Sequence		AX203713		21	84	7	24
17.8 84.8 21 6 AX203713 AX203713 AX203713 17.8 84.8 21 6 AX203685 AX203685 AX203685 18.0 20 6 AX203685 AX203686 18.1 20.2 20 6 AX203686 AX203686 18.2 72.4 36 6 A3203676 AX203686 18.2 72.4 36 6 A3203676 AX203687 18.2 72.4 36 6 A3203676 AX203687 18.2 72.4 36 6 AX203697 AX203687 18.2 71.4 20 6 AX103897 AX108925 19.3 71.4 20 6 AX10387 AX203677 19.4 68.6 21 6 AX203677 AX10387 19.6 AX203676 AX203677 AX10387 19.6 AX203677 AX10387 AX10387 19.6 AX10387 AX10387 AX10387 19.6 AX10387 AX10387 AX10387 19.6 AX10387 AX10387 AX10387 19.6 AX10387 AX10387 19.8 65.7 60 6 A15397 19.8 AX10717 GI:17908676 19.7 AR10717 GI:17908676 19.7 AX10717 AX10717 19.7 19.7 AX10717 19.7 AX10717 19.7 AX10717 19.7 AX10717 19.7 AX10717 19.7 AX10717 19.7 AX10	17.8 84.8 21 6 AX203713 AX203713 17.8 84.8 21 6 AX203685 AX203685 17.8 84.8 20 6 AX203685 AX203685 18.0 20 6 AX203685 AX203686 18.4 20.5 20.5 20.5 18.4 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 18.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 20.	24 17.8 84.8 21 6 AX203713 Seque 25 17 81.0 20 6 AX203685 AX203685 AX203685 26 16 76.2 19 6 AX133299 AX133299 28 15.4 73.3 21 6 AX203686 AX203686 29 15.4 73.3 21 6 AX203686 AX203686 30 15.2 72.4 36 6 AS0107 AX203686 AX203686 31 15.2 72.4 36 6 AS0107 AX203686 AX203686 31 15.2 72.4 36 6 AS0107 AX203687 AX20368 33 15.2 71.4 16 AX203687 AX203687 AX20368 34 15 71.4 16 AX203676 AX203676 AX20367 35 14.2 16 AX203676 AX20367 AX20367 36 14.2 16 AX203676 AX20367 Seque 40 14.4 66.7 19 6 AX11382 AX20367 Seque 41 14 66.7 19 6 AX11382 AX203675	24 17.8 84.8 21 6 AX203713 AX203713 Sequence 25 17.8 84.8 21 6 AX203685 AX203668 Sequence 27 16 76.2 19 6 AX203685 AX203685 Sequence 28 16 76.2 19 6 AX203686 Sequence AX203686 Sequence 29 15.2 19 6 AX203686 AX203686 Sequence AX203686 AX203686 Sequence AX203686 AX203686 AX203686 Sequence AX203686 AX203686 Sequence AX203686 Sequence AX203686 AX203686 Sequence AX203686 Sequence AX20367 Sequence AX203676 AX365962 Sequence AX2	AX203679 sequence AX203684 sequence		AX203684	ہ ہ	21	85.	18 18	53 73
18 85.7 21 6 AX203619 AX203687 AX203687 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18 85.7 21 6 AX203619 AX203617 18 85.7 21 6 AX203618 AX203685 AX203685 AX203685 AX203685 AX203685 AX203685 AX203685 AX203685 AX203685 AX203686 AX203676 AX203676 AX203676 AX203676 AX203676 AX203676 AX203676 AX203677 AX11382 AX203677 AX11382 AX203675 AX203675 AX203675 AX203676 AX203675 AX203676 AX203675 AX2036	24 17.8 85.7 21 6 AX203684 AX203684 AX203685 AX203685 AX203685 AX203685 Seque AX203685 Seque AX203685 Seque AX203685 Seque AX203686 AX203686 AX203686 Seque AX203686 AX203686 Seque AX203687 Seque AX203687 AX203677 Seque AX203677 AX203677 AX203677 Seque AX203675 AX203677 Seque AX203677 AX203677 AX203677 Seque AX203677 AX203677 AX203677 AX203677	24 17.8 85.7 21 6 Ax203059 Ax20368 Ax20368 Ax20368 Ax20368 Seque Ax20367	AX203690 Sequence		- AX203690	o u	18	883	8 6	27
18 85.7 18 6 AX203690 AX203690 18 85.7 18 6 AX203699 17.8 84.8 21 6 AX203693 18 85.7 21 6 AX203693 18 85.7 21 6 AX203695 16 76.2 19 6 AX203695 16 76.2 19 6 AX203696 15 4 73.3 21 6 AX203696 15 4 73.3 21 6 AX203696 15 2 72.4 36 6 A91017 15 71.4 16 6 AX009100 15 71.4 18 6 AX203697 15 71.4 20 6 E14235 16 AX203676 17 21 6 AX203676 17 20 6 AX111382 17 4 68.6 21 6 AX203677 17 66.7 19 6 AX009121 17 66.7 19 6 AX009121 17 66.7 19 6 AX009122 18 66.7 20 6 AX11182 19 6 AX203675 11 66.7 20 6 AX118923 11 66.7 20 6 AX118923 12 66.7 20 6 AX118923 13 8 65.7 60 6 A15397 14 66.7 21 6 AX203675 15 7 20 6 AX118923 16 66.7 20 6 AX118923 17 66.7 20 6 AX118923 21 bp DNA 110ear PAT 21 AX170717 21 By AX170717 21 By AX170717 21 By AX170717 21 By AX170717	18 85.7 18 6 AX203690 AX203690 18 85.7 18 6 AX203690 AX203691 17.8 84.8 21 6 AX203693 18 85.7 21 6 AX203693 17.8 84.8 21 6 AX203695 16 76.2 16 6 AX009101 AX009101 16 76.2 19 6 AX133299 AX203696 15.4 73.3 21 6 AX203696 AX203697 15.2 72.4 36 6 A91017 E50976 AX203670 15.2 72.4 36 6 A91017 E50976 AX203687 15.2 72.4 36 6 A91017 E50976 AX203687 15.2 72.4 36 6 AX203697 AX203687 15.2 72.4 36 6 AX203697 AX203687 15.2 71.4 18 6 AX20367 AX118925 15 71.4 20 6 E14235 AX203677 14.4 68.6 21 6 AX36396 AX203677 14.4 68.6 21 6 AX36396 AX203677 14.6 66.7 19 6 AX081926 AX203677 14 66.7 19 6 AX081926 AX203677 14 66.7 19 6 AX081926 AX203675 14 66.7 19 6 AX081926 AX203675 14 66.7 19 6 AX081926 AX203675 18.8 65.7 60 6 A15397 AX203672 19.8 65.7 60 6 A15397 ALIGNMENTS AR170717 AX203672 AX203676 AX203673 AX203672 AX203673 AX203675 AX203674 AX203676 AX203676 AX203676 AX203677 AX203676 AX203677 AX20	21 18 85.7 18 6 Ax203690 Ax203690 Ax203669 Seque 23 18 85.7 21 6 Ax203679 Ax2036679 Ax2036679 Ax2036679 Ax2036679 Seque 24 17.8 84.8 21 6 Ax203783 Ax203713 Seque 26 16 76.2 16 6 Ax203785 Ax203713 Seque 26 16 76.2 19 6 Ax203786 Ax203686 Ax203686 Seque 29 15.4 73.3 21 6 Ax203678 Ax203678 Seque 29 15.4 73.3 21 6 Ax203678 Ax203678 Seque 29 15.2 72.4 36 6 A91017 Ax203678 Seque 31 15.2 72.4 36 6 A20010 Ax203678 Seque 31 15.2 72.4 36 6 Ax203676 Ax203678 Seque 33 15 71.4 18 6 Ax203676 Ax203676 Seque 34 15 71.4 20 6 Ax118925 Ax203676 Seque 36 14.8 6.6 21 6 Ax203677 Ax203676 Seque 36 14.4<	21 18 6.000 AX203690 AX203690 AX203690 AX203690 AX2036690	AX203720 Sequence		AX203720	9	21	87.	œ	~ (
18.4 87.6 21 6 AX203720 AX203720 18 85.7 18 6 AX203690 AX203690 18 85.7 21 6 AX203694 AX203694 17.8 84.8 21 6 AX203684 AX203684 17.8 84.8 20 6 AX203683 16 76.2 19 6 AX203685 AX203686 15.4 73.3 21 6 AX203686 AX203686 15.4 73.3 21 6 AX203686 AX203686 15.2 72.4 36 6 AX203686 AX203687 15.2 72.4 36 6 AX203687 AX203687 15.2 72.4 36 6 AX203687 AX203687 15.3 71.4 16 6 AX203687 AX203687 15 71.4 20 6 E14235 AX203677 11.8 65.7 19 6 AX203676 AX203677 14.8 68.6 21 6 AX203676 AX203677 14.4 66.7 19 6 AX081924 AX081924 AX081924 14 66.7 21 6 AX203675 AX203677 14 66.7 21 6 AX203675 AX203677 14 66.7 21 6 AX203675 AX203677 15 60 6 AX118923 AX203677 16 65.7 21 6 AX203676 AX365928 AX203677 17 66.7 21 6 AX203676 AX365928 AX203677 18 65.7 60 6 AX181828 AX203678 AX203678 19 8 AX170717 AX203676 AX203677 19 8 AX170717 AX203677 19 8 AX20377 10 8 A	18.4 87.6 21 6 AX203720 AX203720 18 85.7 18 6 AX203690 AX203690 18 85.7 21 6 AX203694 AX203694 17.8 84.8 20 6 AX203684 AX203684 17.8 84.8 20 6 AX203683 16 76.2 10 6 AX203685 AX203685 16 76.2 10 6 AX203696 AX203686 15.4 73.3 21 6 AX203696 AX203686 15.2 72.4 36 6 A200107 AX203686 15.2 72.4 36 6 A200100 AX203687 15 71.4 16 6 AX203687 AX203687 15 71.4 20 6 E14235 AX203676 15 71.4 20 6 E14235 AX203677 14.8 68.6 21 6 AX203676 AX203677 14.8 68.6 21 6 AX203676 AX203677 14.6 66.7 19 6 AX091921 AX081924 AX081924 14 66.7 21 6 AX203677 AX11892 14 66.7 21 6 AX203677 AX11892 15 6 AX003107 AX11892 16 6 AX09131 AX081926 AX081924 AX081924 16 66.7 21 6 AX203677 AX11892 17 66.7 21 6 AX203677 AX11892 18 65.7 60 6 A15397 AX11892 19 8 AX170717 AX11892 AX081924 10 6 AX081926 AX18923 AX203675 13.8 65.7 60 6 A15397 AX11892	20 18.4 87.6 21 6 AX203720 AX203690	20 18.4 87.6 21 6 AX203720 AX203720 Seque 21 18 85.7 18 6 AX203699 AX203690 AX203690 AX203690 Seque 23 18 85.7 21 6 AX203684 AX203684 AX203689 AX203689 Seque 24 17.8 84.8 21 6 AX203684 AX203689 Seque 25 17 81.0 20 6 AX203689 AX203689 Seque 26 16 6 AX203689 AX203689 Seque AX203689 Seque 27 16 6 AX203678 AX203689 Seque 28 15.4 73.3 21 6 AX203678 AX20368 Seque 29 15.2 72.4 36 6 AX203678 AX20368 Seque 30 15.2 72.4 36 6 AX203678 AX20368 Seque 31 15.2 72.4 36 6 ES0976 AX203687 Seque 31 15.2 72.4 36 6 AX203687 Seque 31 15.4 16 AX203687 Seque <td>AX203683 Sequence</td> <td></td> <td>AX203683</td> <td>9</td> <td>21</td> <td>90.</td> <td></td> <td>19</td>	AX203683 Sequence		AX203683	9	21	90.		19
19 90.5 21 6 AX203683 AX203689 18.4 87.6 21 6 AX203690 AX203690 AX203690 18 85.7 21 6 AX203690 AX203690 AX203690 18 85.7 21 6 AX203694 AX203694 AX203694 17.8 84.8 2.0 6 AX203694 AX203694 AX203694 17.8 84.8 2.0 6 AX203695 AX203695 AX203695 16 76.2 19 6 AX203696 AX203696 AX203696 AX203696 AX203696 AX203696 AX203696 AX203696 AX203697 AX133299 AX203697 AX2	19 90.5 21 6 AX203683 AX203689 18.4 87.6 21 6 AX203690 AX203690 AX203690 AX203690 AX203690 AX203690 AX203690 AX203690 AX203690 AX203694 17.8 85.7 21 6 AX203694 AX203694 AX203694 17.8 81.0 20 6 AX203693 AX203695 AX203695 AX203695 AX203695 AX203695 AX203696 AX203696 AX203696 AX203696 AX203696 AX203696 AX203697 AX133299 AX203697 AX133299 AX203697 AX133299 AX203697 AX133299 AX203697 AX133299 AX203697 AX133299 AX203697	19 90.5 10 AX203683 AX203680 AX2	19 90.5 21 6 AX203683 AX203683 Sequences 18.4 87.5 21 6 AX203683 AX203683 Sequences 23 18.4 87.5 21 6 AX203690 AX203693 Sequences 24 17.8 84.8 21 6 AX203684 AX203694 AX203694 Sequences 24 17.8 84.8 21 6 AX203684 AX203694 Sequences 25 17 8 84.8 21 6 AX203684 AX203694 Sequences 26 27 21 6 AX203685 Sequences 26 27 21 6 AX203685 Sequences 27 27 27 27 27 27 27 2	AX203692 Sequence		AX203692	ى م	۲. د د		א פ	7 6
19 90.5 19 6 AX203692 AX203692 19 90.5 19 6 AX203693 18.4 87.6 21 6 AX203693 AX203693 18.4 87.6 21 6 AX203690 AX203690 AX203690 19 90.5 21 6 AX203690 AX203690 AX203690 18 85.7 21 6 AX203694 AX203694 AX203691 17.8 81.0 20 6 AX203694 AX203691 AX203691 17.8 81.0 20 6 AX203693 AX203691 AX203691 16 76.2 19 6 AX203698 AX203691 AX203696 AX2036976 AX2036976 AX203677 14.4 20 6 E14235 AX203677 AX11382 AX203677 AX11382 AX203677 AX11382 AX203677 AX11382 AX203678 AX203677 AX11382 AX203678	19 90.5 19 6 AX203692 AX203692 19 90.5 19 6 AX203693 18.4 87.6 21 6 AX203693 AX203693 18.4 87.6 21 6 AX203693 AX203693 AX203693 18.4 87.6 21 6 AX203693 AX203694 AX203695 AX203695 AX203695 AX203696 AX203697 AX203676 AX365962 AX203677 AX11392 AX009121 AX081924 AX081924 AX081924 AX081924 AX081924 AX081924 AX203677 S13.8 65.7 60 6 A15397 AX118923 AX203677 AX18924 A	17. 19 90.5 19 6 AX203682 AX203683 Seque 19 90.5 21 6 AX203683 Ceque 20 18.4 87.6 21 6 AX203683 Ceque 20 18.4 87.6 21 6 AX203692 AX203693 Seque 20 18.4 87.6 21 6 AX203699 AX203693 Seque 20 20 18 85.7 21 6 AX203694 AX203693 Seque 20 17.8 84.8 21 6 AX203694 AX203695 Seque 20 17.8 84.8 21 6 AX203695 AX203695 Seque 20 17.2 84.8 21 6 AX203695 AX203695 Seque 20 17.4 20 6 AX203696 Seque 20 15.4 73.3 21 6 AX203696 Seque 20 15.2 72.4 36 6 E50976 AX203696 Seque 20 15.2 72.4 36 6 E50976 AX203697 Seque 20 15.4 4.4 68.6 21 6 AX203697 AX203697 Seque 40 14.4 66.7 19 6 AX203677 AX203697 Seque 41 14.6 6.7 19 6 AX203677 AX203697 Seque 42 14.6 6.7 19 6 AX203677 AX203697 Seque 43 14.6 6.7 20 6 AX1118923 AX203675 Seque 44 16.7 20 6 AX111892 AX203677 Seque 43 14.6 6.7 20 6 AX1118923 A20428 AX203677	19 90.5 19 6 AX203680	AX203689 Sequence		AX203689	۰ م	19	90.	19	16
19 90.5 19 6 AA203689 AA203689 19 90.5 19 6 AA203680 AA203680 19 90.5 21 6 AA203680 AA203692 19 90.5 21 6 AA203680 AA203691 10 90.5 21 6 AA203690 AA203691 11	19 90.5 19 6 AX203689	16	16	AX203714 Sequence		AX203714	9	21	92.	σ	15
19.4 92.4 21 6 AX203514 AX203689 19 90.5 19 6 AX203689 AX203689 19 90.5 19 6 AX203689 AX203689 19 90.5 19 6 AX203680 AX203680 18.4 87.6 21 6 AX203680 AX203680 18.8 85.7 21 6 AX203690 AX203679 18 85.7 21 6 AX203691 AX203679 18 85.7 21 6 AX203684 AX203689 17.8 84.8 21 6 AX203684 AX203689 18 85.7 21 6 AX203689 AX203680 18 85.7 21 6 AX203680 AX203680 AX203680 15 2 19 6 AX203680 AX203680 AX203680 15 2 72.4 36 6 AX009100 AX009100 15 71.4 18 6 AX203670 AX203687 15 71.4 20 6 AX203670 AX203687 15 71.4 20 6 AX203670 AX203670 15 71.4 20 6 AX11382 AX203670 15 71.4 20 6 AX11382 AX203670 16 76.5 39 6 AX11382 AX203670 17 88.6 21 6 AX203670 AX203670 18 6.7 19 6 AX203670 AX203670 19 6 AX203670 AX203670 11 4 66.7 19 6 AX203670 AX203670 11 4 66.7 19 6 AX203670 AX203670 12 6 AX11382 AX203670 13 8 65.7 60 6 AX11892 AX203670 14 66.7 19 6 AX203670 AX203670 15 71.4 66.7 19 6 AX203670 AX203670 16 6 AX203670 AX203670 AX203670 17 8 6.7 6 6 AX203670 AX203670 18 6.7 10 6 AX203670 AX203670 19 6 AX203670 AX203670 AX203670 11 4 66.7 19 6 AX203670 AX203670 12 14 66.7 19 6 AX203670 AX203670 13 8 65.7 6 6 AX11382 AX203670 14 66.7 19 6 AX203670 AX203670 15 AX203670 AX203670 AX203670 16 AX203670 AX203670 AX203670 17 8 6.7 10 6 AX203670 AX203670 18 6.7 10 6 AX203670 AX203670 19 6 AX203670 AX203670 AX203670 10 6 AX203670 AX203670 AX203670 11 4 66.7 19 6 AX203670 AX203670 12 14 66.7 19 6 AX203670 AX203670 13 8 65.7 60 6 AX11302 AX203670 14 66.7 19 6 AX203670 AX203670 15 AX203670 AX203670 16 AX203670 AX203670 17 AX203670 AX203670 18 6.7 6 6 AX20370 AX203670 19 6 AX20370 AX203670 10 6 AX20370 AX203670 10 6 AX20370 AX203670 10 6 AX20370 AX203670 11 AX20370 AX20370 11 AX20370 AX20370 12 AX20370 AX20370 13 AX20370 AX20370 14 AX20370 AX20370 15 AX20370 AX20370 16 AX20370 AX20370 17 AX20370 AX20370 18 6.7 6 AX20370 AX20370 18 6.7 7 6 AX20370 18 6.7 7 6 AX20370 18 6.7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	19.4 92.4 21 6 AX203714 AX203714 AX203714 19.9 90.5 19 6 AX203689 AX203690 AX20360 AX2036	15 19.4 92.4 21 6 AX203714 AX203689 Seque <	15 19.4 92.4 21 6 AX203714 AX203689 Seque AX203689 AX203689 AX203689 AX203689 AX203689 AX203689 AX203689 Seque AX203689 AX203689 Seque AX203689 AX203689 Seque <td>AX203682 Sequence</td> <td></td> <td>AX203682</td> <td>φ ,</td> <td>21</td> <td>95.</td> <td></td> <td>14</td>	AX203682 Sequence		AX203682	φ ,	21	95.		14
19.4 92.4 21 6 AX203682 AX203682 AX203682 19.4 92.4 21 6 AX203689 AX203690	19.4 92.4 21 6 AX203682 AX203682 AX203682 19.4 92.4 21 6 AX203689 AX203689 AX203689 19 90.5 19 6 AX203689 AX203689 AX203689 19 90.5 21 6 AX203689 AX203680 A	14 20 95.2 21 6 AX203682 AX203	14 20 95.2 21 6 AX203682 AX203682 AX203682 AX203682 AX203682 AX203682 AX203682 AX203689 AX20369 AX20369	AXZU3691 Sequence		AX203691	o vo	2.5	0 0	200	13
20 95.2 21 6 AX203681 AX203681 AX203681 20 95.2 21 6 AX203682 AX203682 AX203682 AX203682 AX203682 AX203682 AX203682 AX203682 B 90.5 19 6 AX203682 AX203680 A	19.4 90.5 2 20 6 AX203681 AX203681 19.4 90.5 2 20 6 AX203682 20 95.2 21 6 AX203682 20 90.5 21 6 AX203692 20 90.5 21 6 AX203692 20 90.5 21 6 AX203693 AX203680 AX20	13	13	AX203688 Sequence		AX203688	o u	2 5		2 0	11.
20 95.2 20 6 AX203691 20 95.2 21 6 AX203692 21 9 0.5 21 6 AX203699 21 9 0.5 21 6 AX203699 21 9 0.5 21 6 AX203699 21 9 0.5 21 6 AX203693 21 8 85.7 21 6 AX203690 21 8 85.7 21 6 AX203690 21 8 85.7 21 6 AX203690 21 8 85.7 21 6 AX203694 21 8 85.7 21 6 AX203691 21 8 87.8 21 6 AX203691 21 8 8 AX203692 21 8 AX20369	20 95.2 20 6 AAZ03688 AAZ03688 AAZ03688 20 95.2 21 6 AAZ03681 AAZ03688 AAZ03681 20 95.2 21 6 AAZ03681 AAZ03681 AAZ03681 AAZ03681 AAZ03681 AAZ03681 AAZ03681 AAZ03681 AAZ03689	10	11 20 95.2 20 6 AX20368 AX20368 AX20368 AX20368 Sequence 13 20 95.2 21 6 AX20368 AX20368 AX20368 AX20368 Sequence 14 20 95.2 21 6 AX20368 AX20368 AX20368 AX20368 AX20368 AX20368 Sequence AX20369 AX20369 AX20369 AX20369 AX20369 AX20369 AX20369 AX20369 AX20369 Sequence AX20369 AX20369 AX20369 Sequence AX20369 AX20369 Sequence AX20369 AX20369 Sequence AX20369 AX20369 Sequence AX20369 <td>AR118924 Sequence</td> <td></td> <td>AR118924</td> <td>œ ۱</td> <td>50</td> <td>90.</td> <td>50</td> <td>10</td>	AR118924 Sequence		AR118924	œ ۱	50	90.	50	10
20 95.2 20 6 AXX18924 ARR18924 20 95.2 20 6 AXX03681 AXX03681 20 95.2 20 6 AXX03681 AXX03681 20 95.2 21 6 AXX03681 AXX03681 20 95.2 21 6 AXX03682 AXX03682 19 90.5 19 6 AXX03689 AXX03689 19 90.5 19 6 AXX03689 AXX03689 18 4 87.6 21 6 AXX03689 AXX03689 18 85.7 21 6 AXX03683 AXX03689 18 85.7 21 6 AXX03683 AXX03689 18 85.7 21 6 AXX03684 AXX03689 AXX03689 19 90.5 10 6 AXX03689 AXX03689 10 80.5 21 6 AXX03689 AXX03689 AXX03689 11 81 85.7 21 6 AXX03689 AXX03689 AXX03689 12 76.2 19 6 AXX03689 AXX03689 AXX03689 15 76.2 19 6 AXX03689 AXX03689 AXX03689 15 71.4 20 6 AXX03687 AXX03689 AXX03689 15 71.4 20 6 AXX03687 AXX03697 AXX03691 16 76.2 21 6 AXX03687 AXX03697 AXX03691 17 81.0 20 6 AXX03687 AXX03697	20 95.2 20 6 ANIB924 ARIB924 20 95.2 20 6 ANZ03691 20 95.2 21 6 ANZ03692 30 95.2 21 6 ANZ03692 30 90.5 12 6 ANZ03692 30 90.5 19 6 ANZ03692 30 90.5 19 6 ANZ03693 30 90.5 19 6 ANZ03693 30 90.5 19 6 ANZ03693 30 90.5 21 6 ANZ03693 30 90.5 21 6 ANZ03693 30 85.7 21 6 ANZ03693 30 85.7 21 6 ANZ03694 30 85.7 21 6 ANZ03694 30 85.7 21 6 ANZ03694 30 85.7 21 6 ANZ03695 30 90.5 21 6 ANZ03694 30 90.5 21 6 ANZ03690 30 90.5 21 6 AN	10	10	AX203695 Sequence		AX203695	9	62	100.	21	•
21 100.0 62 6 AR203695 20 95.2 20 6 AR203681 20 95.2 20 6 AX203681 20 95.2 20 6 AX203681 20 95.2 20 6 AX203681 20 95.2 21 6 AX203681 20 95.2 21 6 AX203682 19.4 92.4 21 6 AX203682 19 90.5 19 6 AX203689 19 90.5 21 6 AX203689 19 90.5 21 6 AX203689 18 85.7 21 6 AX203689 18 85.7 21 6 AX203689 18 85.7 21 6 AX203699 18 85.7 21 6 AX203699 19 90.5 21 6 AX203699 10 90.5 21 6 AX203699 11 8 85.7 21 6 AX203699 12 90.5 21 6 AX203699 13 80.7 21 6 AX203699 14 80.7 21 6 AX203699 15 2 72.4 36 6 AX203699 15 71.4 20 6 AX1133299 15 71.4 20 6 E14235 17 14 20 6 E14235 18 71.4 20 6 E14235 19 6 AX203679 11 6 6.7 20 6 AX11382 11 6 AX20366 11 6 AX20366 11 6 AX20366 11 6 AX20367 11 6 AX20367 11 6 AX20367 11 6 AX20367 11 6	21 100.0 62 6 AXX03695 20 95.2 20 6 AXX03691 20 95.2 20 6 AXX03681 20 95.2 20 6 AXX03681 20 95.2 20 6 AXX03681 20 95.2 21 6 AXX03681 20 95.2 21 6 AXX03682 20 95.2 21 6 AXX03683 20 95.2 21 6 AXX03683 20 95.2 21 6 AXX03683 21 9 90.5 19 6 AXX03689 21 9 90.5 21 6 AXX03689 22 10 6 AXX03689 23 18 4 87.6 21 6 AXX03683 24 87.6 21 6 AXX03683 25 21 6 AXX03683 26 21 6 AXX03683 27 21 6 AXX03683 28 85.7 21 6 AXX03683 29 85.7 21 6 AXX03683 20 87X03683 21 8 85.7 21 6 AXX03683 21 8 87 20 6 AXX03683 21 8 87 20 6 AXX03683 21 8 87 20 6 AXX03693 21 8 87 20 6 AXX03673 21 8 8 20 6	9 21 100.0 62 6 AX203695 AX203695 Seque 11 20 95.2 20 6 AX203691 AX203691 AX203691 Seque 12 20 95.2 20 6 AX203691 AX203691 Seque 13 20 95.2 21 6 AX203691 AX203691 Seque 14 30 95.2 21 6 AX203691 AX203691 Seque 15 19.4 92.4 21 6 AX203714 AX203691 Seque 16 19 90.5 19 6 AX203692 AX203693 Seque 17 8 90.5 19 6 AX203693 AX203693 Seque 18 85.7 21 6 AX203693 AX203693 Seque 18 85.7 21 6 AX203693 AX203693 Seque 22 18 85.7 21 6 AX203693 AX203693 Seque 23 18 85.7 21 6 AX203693 AX203693 Seque 24 17.8 85.7 21 6 AX203693 AX203693 Seque 25 17 81.0 20 6 AX203693 AX203693 Seque 26 17 81.0 20 6 AX203693 AX203693 Seque 27 16 AX203693 AX203693 AX203693 Seque 28 15.4 3.5 2 10 6 AX203693 AX203693 Seque 29 15.4 3.6 6 AX003101 AX203693 Seque 29 15.2 72.4 36 6 AX003101 AX203693 Seque 29 15.4 20 6 AX203677 AX203693 Seque 29 15.4 20 6 AX203677 AX203693 Seque 29 15.4 20 6 AX203677 AX203693 Seque 29 15.4 20 6 AX11332 Seque 20 15.4 20 6 AX11332 Seque 21 14.8 66.7 19 6 AX203677 AX203677 Seque 21 14.8 66.7 19 6 AX203677 AX203677 Seque 21 14.8 66.7 19 6 AX099121 AX203675 Seque 21 14.6 66.7 19 6 AX203675 AX203675 Seque 21 14.6 66.7 19 6 AX203675 AX203675 Seque 21 14.6 66.7 19 6 AX11332 Seque 22 15.4 4 66.7 19 6 AX11332 Seque 23 15.6 4 AX203677 Seque 24 14 66.7 19 6 AX203675 Seque 25 15.4 14 66.7 19 6 AX203675 Seque 26 15.3 14 14 66.7 Seque 27 16 17 18 6 AX203675 Seque 28 16 17 18 6 AX203675 Seque 29 17 14 18 6 AX203675 Seque 20 18 18 18 18 18 18 18 18 18 18 18 18 18	9 21 100.0 62 6 AX203695 AXX03695 Sequence 11 20 95.2 20 6 AX203681 AXX03691 AXX03691 AXX03681 Sequence	AX234365 Sequence		AX234365	ဖ	48	100.	21	
21 100.0 48 6 AX23455 AX203695 20 95.2 20 6 AX203691 20 95.2 21 6 AX203691 20 95.2 21 6 AX203692 21 90.5 21 6 AX203693 21 90.5 21 6 AX203693 21 9 90.5 21 6 AX203693 21 8 85.7 21 6 AX203693 21 8 85.7 21 6 AX203693 21 8 85.7 21 6 AX203693 21 9 90.5 21 6 AX203693 21 9 8 AX20	21 100.0 48 6 AX234365 AX234365 20 95.2 20 6 AX203691 20 95.2 21 6 AX203692 AX203691 20 95.2 21 6 AX203692 AX203691 20 90.5 19 6 AX203692 AX203691 21 90.5 21 6 AX203693 AX203693 21 90.5 21 6 AX203693 AX203693 22 10 6 AX203693 AX203693 AX203693 23 21 6 AX203693 AX203693 AX203693 24 4 85.7 21 6 AX203693 AX203693 AX203693 25 27 24 36 6 AX203693 AX203694 AX203694 26 27 24 36 6 AX203693 AX203694 AX203694 27 27 4 36 6 AX203693 AX203694 AX203697 28 27 24 36 6 AX203693 AX203694 AX203697 29 20 6 AX203693 AX203694 AX203697 20 19 6 AX203693 AX203694 AX203697 21 4 20 6 AX203693 AX203694 AX203697 21 4 20 6 AX203693 AX203694 AX203697 21 4 66.7 20 6 AX11392 AX111392 AX111392 21 4 66.7 20 6 AX11392 AX203673 AX203673 21 6 AX203673 AX203673 AX203673 21 6 AX203673 AX203673 AX203673 AX203673 21 6 6 AX203673 AX203673 AX203673 21 6 6 AX203673 AX203673 AX203673 21 6 AX203673 AX203673 AX203673 AX203673 21 6 AX203673 AX2	8 21 100.0 48 6 AX203655 AX20365 AX20366	8 21 100.0 48 6 AX234365 AX234365 AX234365 Seque AX234365 10 20 95.2 20 6 AX203688 AX203681 AX203681 Seque AX203681 AX203681 Seque AX203681 AX203681 Seque AX203681 AX203681 AX203681 AX203681 Seque AX203681 AX203681 AX203681 Seque AX203681 Seque AX203681 Seque AX203681 Seque AX203681 Seque AX203682 Seque AX203681 Seque AX203682 Seque AX203683	E11023 DNA fragmen		E11023	ω (42	100.	21	
21 100.0 42 6 E11023 E11522 DNA 1100.0 62 6 AX233695 AX234365 AX233695 AX23	21 100.0 42 6 E11023 E11023 DN	7 21 100.0 42 6 BL1023 BL1023 DNA frag 9 21 100.0 6 6 AK234365 AK23465 SAG9 10 20 95.2 20 6 AK203691 AK203691 AK203691 AK203681 SAG948 AK203681 SAG948 AK203681 SAG948 SAG948 AK203681 SAG948 AK203681 SAG948 AK203681 SAG948 AK203681 SAG948 AK203681 AK203681 AK203681 AK203681 SAG948 AK203681<	7 21 100.0 42 6 E11023 DNA TABLES 8 21 100.0 6 AK203695 AK203695 Seque 10 20 6 AK203695 AK203698 AK203	AR118881 Sequence		2 00	ω	4 2	100.	21	
100.0 42 6 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB1 ARTIBBB2 ARTIBBB	100.0 42 6 ARIBBBI ARIBBI ARIBBBI	The color of the	Color	AX203/15 Sequence AX203693 Sequence		10	ی ه	3 K	100	2.1	
100.0 31 6 AX203631 AX20363	100.0 31 6 AX203643 AX2036512 AX20	5 21 100.0 31 6 AX203691 AX203691 AX203691 AX203693 AX203693 Sequence 6 21 1000.0 4.2 6 AX203693 AX203693 Sequence 9 21 1000.0 4.2 6 AX203693 AX203693 Sequence 10 20 95.2 20 6 AX203688 AX203698 AX203698 AX203698 AX203698 AX203698 AX203698 Sequence AX203688 AX203688 <t< td=""><td> 100.00 31 6 AX203691</td><td>AX203699 Sequence</td><td></td><td>Σ.</td><td>ט מ</td><td>17</td><td></td><td>זינכ</td><td></td></t<>	100.00 31 6 AX203691	AX203699 Sequence		Σ.	ט מ	17		זינכ	
100.00	AND COLOR AND	4 21 100.0 21 6 AX203039 AX203039 AX203039 AX203039 AX203059 AX203059 AX203059 AX203059 AX203059 AX203059 AX20369 Seque 10 90.5 2.1 6 AX20369 AX20369 Seque AX20369 Seque 11 90.5 2.1 6 AX20369 AX20369 Seque AX20369 Seque 21 80.5 </td <td> 100.00</td> <td>AX203667 Sequence</td> <td></td> <td>9</td> <td>6 4</td> <td>21</td> <td>100.</td> <td>21</td> <td>79 r</td>	100.00	AX203667 Sequence		9	6 4	21	100.	21	7 9 r
100.0	100.00	2.1 100.0 2.1 6 AX203697 AX203607 Seque 4 2.1 100.0 2.1 6 AX203715 AX203699 Seque 5 2.1 100.0 2.1 6 AX203715 AX203699 Seque 6 2.1 100.0 4.2 6 AX203715 AX203699 Seque 1 100.0 4.2 6 AX203715 AX203695 Seque 2 2 100.0 4.2 6 AX203695 AX203695 Seque 1 100.0 4.2 6 AX203691 AX203695 Seque 1 100.0 4.2 6 AX203691 AX203695 Seque 1 100.0 6 AX203691 AX203691 Seque 1 2 0 95.2 2.0 6 AX203691 AX203691 Seque 1 2 0 95.2 2.0 6 AX203691 AX203691 AX203691 Seque 1 3 0 90.5 2.1 6 AX203691 AX203691 AX203691 AX203691 Seque 2 1 0 0 95.2 2.0 6 AX203691 AX203691 AX203691 Seque 2 1 0 0 90.5 2.1 6 AX203690 AX203690 AX203690 Seque 2 1 0 0 0 90.5 2.1 6 AX203690 AX203690 AX203690 Seque 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 21 100.0 21 6 AX203699 AX203699 Seque 4 21 100.0 21 6 AX203715 AX203693 AX203699 Seque 5 21 100.0 21 6 AX203715 Seque AX203695 Seque 7 21 100.0 42 6 AX203695 AX203695 Seque 10 20 95.2 20 6 AX203695 Seque AX203695 Seque 11 20 95.2 20 6 AX203691 AX203691 AX203689 Seque 12 100.0 42 6 AX203691 AX203681 AX203681 AX203681 AX203681 AX203681 AX203681 Seque 13 20 95.2 21 6 AX203681 AX203681 Seque 14 20 95.2 21 6 AX203681 AX203681 AX203681 Seque 15 10	AR170717 Sequence		₽:	9	21	100.	21	н (
21 100.0 21 6 AR170777 AK170777 AK203695 AK2036695 21 100.0 21 6 AK203697 AK203695 AK20395 AK20	21 100.0 21 6 AR170717 AR170717 AR203695 AX2036697 21 100.0 21 6 AX203697 AX203695 A	1	1 21 100.0 21 6 AR170717 AR170717 Seque 2 21 100.0 21 6 AX203667 AX203667 AX203667 Seque 4 21 100.0 21 6 AX203693 AX203693 Seque 5 21 100.0 21 6 AX203693 AX203693 Seque 6 21 100.0 42 6 AX203693 AX203693 Seque 10 20 95.2 20 6 AX203693 AX203693 AX203693 Seque 11 20 95.2 20 6 AX203694 AX203693 AX203693 AX203693 AX203693 AX203693 AX203693 AX203693 AX203693 AX203693 Seque AX203693 AX203693 AX203693 AX203693 Seque AX203693 AX203693 Seque AX203693 AX203693 Seque AX203693 Seque AX203693 Seque AX203693 Seque	ption			BB :		tc.	core	, . ;
Score Match Length DB ID 21 100.0 21 6 AX203697 22 100.0 21 6 AX203697 22 100.0 21 6 AX203697 23 100.0 21 6 AX203697 24 100.0 21 6 AX203693 25 100.0 21 6 AX203693 26 20 20 6 AX203693 27 100.0 42 6 E11023 28 100.0 62 6 AX203693 28 20 95.2 20 6 AX203693 29 95.2 20 6 AX203693 20 95.2 21 6 AX203693 21 90.5 21 6 AX203693 22 90.5 21 6 AX203693 23 90.5 21 6 AX203693 24 4 87.6 2 16 AX203693 25 2 16 AX203693 26 2 16 AX203693 27 4 96 AX203693 28 85.7 21 6 AX203693 29 6 AX203693 20 90.5 21 6 AX203693 21 10.0 20 6 AX203693 21 10 4 4.4 6 AX203693 21 10 6	Score Match Length DB ID 21 100.0 21 6 AX203697 22 100.0 21 6 AX203693 AX203715 22 100.0 21 6 AX203693 A	Score Match Length DB ID 100.0	Score Match Length DB ID 100.0		Č.	SUMMAKE			ouerv		sult
Score Match Length DB ID 21 100.0 21 6 AR203697 21 100.0 31 6 AR203697 22 100.0 42 6 AR2036997 22 100.0 42 6 AR2036997 20 95.2 20 6 AR2036997 20 95.2 20 6 AR203691 AR2036891 20 95.2 21 6 AR203691 AR2036891 20 95.2 21 6 AR203691 AR2036891 21 90.5 21 6 AR203691 AR2036891 21 85.7 21 6 AR2036997 AR2036891 21 85.7 21 6 AR2036997 AR2036891 21 70.1 2 10 6 AR203699 AR2036891 21 70.2 10 6 AR203699 AR2036891 21 70.2 10 6 AR203699 AR2036891 21 70.4 2 16 AR203699 AR2036891 21 70.4 2 16 AR203699 AR203699 AR2036891 21 70.4 2 16 AR203699 AR203699 AR2036991 21 10.6 7 2 10 6 AR203699 AR203699 AR2036991 21 10.6 7 2 10 6 AR203699 AR203699 AR2036991 21 10.6 7 2 10 6 AR203699 AR203699 AR2036991 21 10.6 7 2 10 6 AR203699 AR203699 AR2036992 AR2036992 AR2036992 AR203699 AR20399 AR203699	Score Match Length DB ID 21 100.0 21 6 AX203697 22 100.0 21 6 AX203699 AX203697 22 100.0 21 6 AX203699 AX203697 23 100.0 21 6 AX203699 AX203699 24 100.0 21 6 AX203699 AX203699 25 1 100.0 21 6 AX203699 AX203699 26 20 35.2 20 6 AX203699 AX203699 27 100.0 21 6 AX203699 AX203699 28 5.2 2 0 6 AX203691 AX203699 29 5.2 2 0 6 AX203691 AX203699 20 95.2 2 0 6 AX203699 AX203699 20 95.2 2 0 6 AX203699 AX203699 21 9 90.5 10 6 AX203699 AX203699 21 9 90.5 2 16 AX203699 AX203699 22 95.2 2 16 AX203699 AX203699 23 90.5 10 6 AX203699 AX203699 24 2 1 6 AX203699 AX203699 25 1	Score Watch Length DB ID	Score Match Length DB ID 100.00		מ	SUMMAKE					

Patent: US 6291667-A 2 18-SEP-2001; Location/Qualifiers

PAT 30-AUG-2001

linear

DNA

```
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
I (bases 1 to 21)
G111,P.S. and Masood,R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904-A 50 26-JUL-2001;
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 33)
Gill, P.S. and Masood, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904A 2 8 26-JUL-2001;
Gill, Parkash, S. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .33
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="VEGF antisense oligonucleotide"
7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 21; DB Pred. No. 19; 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No. 19;
2; Mismatches
                                                                                                         21 bp
Sequence 50 from Patent W00152904.
AX203715
AX203715.1 GI:15393165
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AX203693 33 bp Sequence 28 from Patent WO0152904.
                                                                                                                                                                                                                                                                                                                                                                                                /codon_start=1
/protein_id="CAC60149.1"
/db_xref="G1:15393166"

    .21
    /organism="Homo sapiens"
    /db_xref="taxon:9606"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                        /translation="IEYIFKP"
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ы
Б
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7
                                                                                                                                                                                                                                                                                                                                                                      <1. .>21
/note="VEGF-A"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AX203693.1 GI:15393135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
90.5%; F
                           100.08;
              1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21 TGGCTTGAAGATGTACTCGAT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity 90.5%;
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ပ
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 19; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ø
                                                                                                                                                                                human.
                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                   RESULT 4
AX203715/c
                                                                                                                           DEFINITION
                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BASE COUNT
ORIGIN
                                                                                                                                         ACCESSION
VERSION
                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 5
AX203693
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                    KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                      CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOURCE
                                                                                                              rocus
                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                                ö
                                                                                                                                                                                                                            PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="synthetic construct"
/db_xref="taxon.32630"
/note="Mixed backbone oligonucleotides, nucleotides 1-4
and 18-21 are 2/0 methylribonucleosides"
3 c 6 g 7 t
                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                   Methods and compositions for antisense vegf oligonucleotides Patent: WO 0152904-A 2 26-JUL-2001; G111, Parkash, S. (US) Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for antisense vegf oligonucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch 100.0%; Score 21; DB 6; Length 21; 1 Similarity 90.5%; Pred. No. 19; 19; Conservative 2; Mismatches 0; Indels
                                                                      6; Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 6; Length 21;
                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="synthetic construct"
/db_xxef="taxon:32630"
/note="vyEGF antisense oligonucleotide"
3 c 6 g 7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ö
                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                synthetic construct
attificial sequences.
1 (bases 1 to 21)
Gill, P.S. and Masood, R.
Methods and compositions for antisense
Patent: NO 0152904-A 34 26-JUL-2001;
Gill, Garkash, S. (US)
                                                                                                                                                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA
                                                                      DB
                           ų
                                                                   Score 21; DB
Pred. No. 19;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No. 19;
                          7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AX203699 21 bp
Sequence 34 from Patent WO0152904.
                                                                                                                                                                                                                    Sequence 2 from Patent W00152904.
AX203667
AX203667.1 GI:15393107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 21;
              /organism≂"unknown"
                              5
                           φ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AX203699.1 GI:15393145
                                                                   100.0%;
90.5%; P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                        artificial sequences.
1 (bases 1 to 21)
Gill, P.S. and Masood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 90.5%;
Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic construct.
                                                                                                                                                                                                                                                                                              synthetic construct,
                                                                                                                                                                                                                                                                                                            synthetic construct
                             ი
ო
                                                                                               Conservative
                                                                   Query Match
Best Local Similarity
Matches 19; Conserv
                          5 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ಥ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AX203699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                             source
source
                        BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BASE COUNT
ORIGIN
                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                   CESSION
SION
WORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 3
03699
US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                             RESULT 2
AX203667
                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                            SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                          LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  õ
                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                     셤
```

ö

Gaps

ö

Indels

ö Ġ

Length 21;

8

S.

PAT 30-AUG-2001

linear

DNA

ö

Gaps

ö

Indels

ö

6; Length 33;

B

RESULT 6 AR118881/c LOCUS

g

DEFINITION

ACCESSION

VERSION

ORGANISM

KEYWORD:S SOURCE

REFERENCE AUTHORS source

FEATURES

TITLE JOURNAL

ASE COUNT

Matches

ö

Gaps

ö

PAT 11-SEP-2001

```
synthetic construct.
synthetic construct
artificial sequences.

1 (bases 1 to 48)
Alitalo, K.M. and Jeltsch, M.M.
Materials and methods involving hybrid vascular endothelial growth factor dnas and proteins accreening methods for modulators
Patent: WO 0162942-A 15 30-AuG-2001;
LUDWIG INSTITUTE FOR CANGER RESEARCH (US); Licentia OY (FI)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostom1;
Mammalia; Eutheria; Primates; Catarrhin1; Hominidae; Homo.
1 (bases 1 to 62)
Gill, P.S. and Masood, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904-A 30 26-JUL-2001;
Gill, Parkash, S. (US)
Gill, Parkash, S. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 21; DB 6; Length 62; 90.5%; Pred. No. 18;
Query Match
100.0%; Score 21; DB 6; Length 42;
Best Local Similarity 90.5%; Pred. No. 18;
Matches 19; Conservative 2; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6; Length 48;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /codon_start=1
/protein_id="CAC60146.1"
/db_xref="G1:1539138"
/translation="IEYIFKPSCVPLMRCGGCCN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="synthetic construct"
/db_xref="taxon:32630"
/note="oligonucleotide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 21; DB 6
Pred. No. 18;
2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12
                                                                                                                                                                                           48 bp
Sequence 15 from Patent WO0162942.
AX234365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AX203695 62 bp
Sequence 30 from Patent WO0152904.
AX203695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1. .62
/organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              14 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;
7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <3. .>62
/note="VEGF-A"
                                                                                                                                                                                                                                                 AX234365.1 GI:15593366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AX203695.1 GI:15393137
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 UGGCTTGAAGATGTACTCGAU 21
                                                                           1 UGGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 90.5%;
Matches 19; Conservative 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                               DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 9
AX203695/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                               VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
                                                                                                                                                            RESULT 8
AX234365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                             ò
                                                                                            PAT 16-MAY-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                           ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               E11023 42 bp RNA linear PAT 29-SEP-1997 DNA fragment of vascular endothelial growth factor(VEGF) structural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11-NOV-1994 JP 1994301709
27-JUN-1994 JP 94P 145146
UCHIDA KIYOSHI, UCHIDA TAKAYOSHI, TANAKA YOICHI, MATSUDA YOKO,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FJ
                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .. .42
note='its antisense DNA inhibits VEGF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 (bases 1 to 42)
Uchida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.
METHOD FOR SEARCHING ANTISENSE NUCLETC ACID
PATENT: JP 1996070899-A 7 19-MAR-1996;
OS UNKNOWN
                                                                                                                                                                                                           Unclassified.

1 (bases 1 to 42)

Ochida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.

Antisense nucleic acid compound targeted to VEGF

Patent: US 6150092-A 7 21-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                       Score 21; DB 6; Length 42;
                                                                                            linear
                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels

    .42
    /organism='Unclassified'

                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                       2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                         18;
                                                                                                                                                                                                                                                                                                                                                      6
                                                                                    Sequence 7 from patent US 6150092. AR118881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  KONDO SHINICHI
C12Q1/68,C12N15/09,G01N33/50;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="unidentified"
/db_xref="taxon:32644"
i 12 c 9 9
                                                                                                                                                                                                                                                                                                                                                                                                                         Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualiflers
                                                                                                                                                                                                                                                                                                                                  /organism="unknown"
12 c 9 g
                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 strandedness: Single;
topology: Linear;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 expression
                                                                                                                                          AR118881.1 GI:14100791
                                                                                                                                                                                                                                                                                                                                                                                                         100.08;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JP 1996070899-A/7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 UGGCTTGAAGATGTACTCGAU 21
     13 TGGCTTGAAGATGTACTCGAT 33
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       anti-sense: Yes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    E11023.1 GI:22024664
JP 1996070899-A/7.
                                                                                                                                                                                                                                                                                                                                                                                                                         90.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                           19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-MAR-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      unidentified
                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                      12 a
                                                                                                                                                                              Unknown.
                                                                                                                                                                                                  Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene,
```

SOURCE ORGANISM

REFERENCE AUTHORS

JOURNAL

OMMENT

DEFINITION

RESULT 7 E11023/c

g

ACCESSION

VERSION KEYWORDS

BASE COUNT ORIGIN

FEATURES

ö

Gaps

ö

PAT 30-AUG-2001

ö

Gaps

ö

Length 20; Indels

.; 9

```
for antisense vegf oligonucleotides
                                                                                                                              synthetic construct.

synthetic construct
artificial sequences.

[ (bases 1 to 20)
Gill, P.S. and Masood, R.
Methods and compositions for antisense Patent: WO 0152904-A 26 26-JUL-2001;
Gill, Parkash, S. (US)
Location/Qualifiers
                                                                                                                                                                                                          Score 20; DB (Pred. No. 58; 1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
    GI:15393133
                                                                                                                                                                                                                                                                                                                                                                     AX203681.1 GI:15393122
                                                                                                                                                                                                          95.2%;
                                                                                                                                                                                                                                                                 95.2%;
95.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 synthetic construct.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         synthetic construct.
                                                                                                                                                                                                                                                     1 UGGCTTGAAGATGTACTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 UGGCTTGAAGATGTACTCGA
                                                                                                                                                                                                                  Best Local Similarity 95.0 Matches 19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 95.0
Matches 19; Conservative
                                                                                                                                                                                                          Query Match
                                                                                                                                                                        BASE COUNT
ORIGIN
                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                             DEFINITION
ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM
                                                                                                                                                                                                                                                                                                             RESULT 13
AX203681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
TITLE
JOURNAL
                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
                                                           REFERENCE
                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 14
AX203682
   VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                            SOURCE
                                                                                                                                                                                                                                                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOURCE
                                                                                                                                                                                                                                                                                                                                    LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                      à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                      PAT 16-MAY-2001
  ö
                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                    PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PAT 30-AUG-2001
   Gaps
                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    synthetic construct.
synthetic construct
synthetic assured:
artificial sequences.
1 (bases 1 to 20)
Gill, P.S. and Masood, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904A, 23 26-JUL-2001;
Coation/Qualifiers
                                                                                                                                                                                        1 (bases 1 to 20)
Uchida,K., Uchida,T., Tanaka,Y., Matsuda,Y. and Kondo,S.
Antisense nucleic acid compound targeted to VEGF
Patent: US 6150092-A 50 21-NOV-2000;
Location/Qualifiers
  ö
                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                      linear
  Indels
                                                                                                                                                                                                                                                                                                           Length 20;
                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1...20
/Organism="synthetic construct"
/db_xref="taxon:32630"
/note="vgGF antisense oligonucleotide"
  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                           ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ..
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DNA
                                                                                                                                                                                                                                                                                                           DB
58;
  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       95.2%; Score 20; DB 95.0%; Pred. No. 58; Live 1; Mismatches
                                                                                                Sequence 50 from patent US 6150092. AR118924
                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 23 from Patent W00152904.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AX203691 20 bp
Sequence 26 from Patent W00152904.
AX203691
                                                                                                                                                                                                                                                                                                           Score 20;
Pred. No.
                                                                                                                                                                                                                                                             /organism="unknown"
3 c 6 g
 5
                                                                                                                                    AR118924.1 GI:14100834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AX203688.1 GI:15393130
                      UGGCTTGAAGATGTACTCGAU 21
                                1 GGCTTGAAGATGTACTCGAT 20
                                                                                                                                                                                                                                                                                                          95.2%;
95.0%;
                                                                                                                                                                                                                                                                                                                                                     2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                19; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 95.0
Matches 19; Conservative
                                                                                                                                                                               Unclassified.
                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                        5
a
                                                                                                                                                           Unknown.
                                                                                                                                                                      Unknown
19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                                                                                                                                                                    ORGANISM
                      ٦
                                                                            RESULT 10
AR118924
                                                                                                                       ACCESSION
VERSION
                                                                                                                                                                                                     AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                       BASE COUNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
FITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BASE COUNT
Matches
                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 11
AX203688
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 12
AX203691
                                                                                                                                                                                           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                              KEYWORDS
                                                                                                                                                                                                                                        EATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                           SOURCE
                                                                                                                                                                                                                                                                                    ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                   LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
                      à
                                           g
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
```

```
PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps
                                                                                                        synthetic construct
artificial sequences.
1 (bases 1 to 21)
Gill, P.S. and Masood, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904-A 16 26-JUL-2001;
Gill, Parkash, S. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           synthetic construct
artificial sequences.
1 (bases 1 to 21)
Gill, P. S. and Mascod, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904-A 17 26-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                      Length 21;
                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         linear
                                                                                                                                                                                                                                                       1. 21
/organia="synthetic construct"
/db_xref="taxon:32630"
/note="VEGF antisense oligonucleotide"
                                                                                                                                                                                                                                                                                                                                                                                                                          ö
                                                                                                                                                                                                                                                                                                                                                                                      9
     DNA
                                                                                                                                                                                                                                                                                                                                                                                    Score 20; DB Pred. No. 58; 1; Mismatches
AX203681 21 bp
Sequence 16 from Patent W00152904.
AX203681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 17 from Patent W00152904
AX203682
AX203682.1 GI:15393123
```

```
ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PAT 30-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1. .21
//organism="synthetic construct"
//db_xref="taxon:32630"
//note="A mutation of the antisense oligonucleotide SEQ ID
NO: 2"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              synthetic construct.
synthetic construct
artificial sequences.
1 (bases 1 to 21)
Gill, P.S. and Masood, R.
Methods and compositions for antisense vegf oligonucleotides
Patent: WO 0152904-A 49 26-JUL-2001;
Gill, Parksh, S. (US)
Cocation/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 92.4%; Score 19.4; DB 6; Length 21; Best Local Similarity 85.7%; Pred. No. 1.1e+02; Matches 18; Conservative 2; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                             Query Match

95.2%; Score 20; DB 6; Length 21;
Best Local Similarity 95.0%; Pred. No. 58;
Matches 19; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                             1. .21
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="VEGF antisense oligonucleotide"
a 4 c 6 g 6 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7 t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AX203714 21 bp
Sequence 49 from Patent WO0152904.
AX203714
Gill, Parkash, S. (US)
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               5 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AX203714.1 GI:15393163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 GGCTTGAAGATGTACTCGAT 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2 GGCTTGAAGATGTACTCGAU 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4
C
                                                                                                                                                                                                                                                                       5
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 15
AX203714
CCUS
FINITION
CCESSION
VERSION
VERSION
VERSION
VERSION
VERSION
CCESSION
VERSION
VER
                                                                                                                                                                                                                                                                   BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BASE COUNT
ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
TITLE
JOURNAL
                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
```

Search completed: December 23, 2002, 06:38:09 Job time: 3269 secs

ò

ö

Gaps

ő

.